

Petra Schwille

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5318262/petra-schwille-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

301
papers

20,648
citations

73
h-index

136
g-index

350
ext. papers

23,617
ext. citations

7.7
avg, IF

7.2
L-index

#	Paper	IF	Citations
301	Ceramide triggers budding of exosome vesicles into multivesicular endosomes. <i>Science</i> , 2008 , 319, 1244-7	33.3	2183
300	Molecular dynamics in living cells observed by fluorescence correlation spectroscopy with one- and two-photon excitation. <i>Biophysical Journal</i> , 1999 , 77, 2251-65	2.9	616
299	Fluorescence cross-correlation spectroscopy in living cells. <i>Nature Methods</i> , 2006 , 3, 83-9	21.6	490
298	GM1 structure determines SV40-induced membrane invagination and infection. <i>Nature Cell Biology</i> , 2010 , 12, 11-8; sup pp 1-12	23.4	461
297	Liposomes and polymersomes: a comparative review towards cell mimicking. <i>Chemical Society Reviews</i> , 2018 , 47, 8572-8610	58.5	458
296	Probing lipid mobility of raft-exhibiting model membranes by fluorescence correlation spectroscopy. <i>Journal of Biological Chemistry</i> , 2003 , 278, 28109-15	5.4	422
295	Spatial regulators for bacterial cell division self-organize into surface waves in vitro. <i>Science</i> , 2008 , 320, 789-92	33.3	393
294	Precise measurement of diffusion coefficients using scanning fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2008 , 94, 1437-48	2.9	367
293	Fluorescence correlation spectroscopy in living cells. <i>Nature Methods</i> , 2007 , 4, 963-73	21.6	333
292	Sterol structure determines the separation of phases and the curvature of the liquid-ordered phase in model membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 3272-7	11.5	333
291	Elucidating membrane structure and protein behavior using giant plasma membrane vesicles. <i>Nature Protocols</i> , 2012 , 7, 1042-51	18.8	323
290	Characterization of Photoinduced Isomerization and Back-Isomerization of the Cyanine Dye Cy5 by Fluorescence Correlation Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 6416-6428	2.8	307
289	Plasma membranes are poised for activation of raft phase coalescence at physiological temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 10005-10	11.5	301
288	Effect of line tension on the lateral organization of lipid membranes. <i>Journal of Biological Chemistry</i> , 2007 , 282, 33537-33544	5.4	289
287	Fgf8 morphogen gradient forms by a source-sink mechanism with freely diffusing molecules. <i>Nature</i> , 2009 , 461, 533-6	50.4	283
286	Fluorescence correlation spectroscopy and its potential for intracellular applications. <i>Cell Biochemistry and Biophysics</i> , 2001 , 34, 383-408	3.2	280
285	Fluorescence correlation spectroscopy relates rafts in model and native membranes. <i>Biophysical Journal</i> , 2004 , 87, 1034-43	2.9	275

284	Importin 8 is a gene silencing factor that targets argonaute proteins to distinct mRNAs. <i>Cell</i> , 2009 , 136, 496-507	56.2	262
283	Partitioning, diffusion, and ligand binding of raft lipid analogs in model and cellular plasma membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 1777-84	3.8	258
282	Lipids as modulators of proteolytic activity of BACE: involvement of cholesterol, glycosphingolipids, and anionic phospholipids in vitro. <i>Journal of Biological Chemistry</i> , 2005 , 280, 36815-23	5.4	228
281	Efficient inhibition of the Alzheimer β disease beta-secretase by membrane targeting. <i>Science</i> , 2008 , 320, 520-3	33.3	225
280	High-resolution three-photon biomedical imaging using doped ZnS nanocrystals. <i>Nature Materials</i> , 2013 , 12, 359-66	27	218
279	Practical guidelines for dual-color fluorescence cross-correlation spectroscopy. <i>Nature Protocols</i> , 2007 , 2, 2842-56	18.8	209
278	Effects of ceramide on liquid-ordered domains investigated by simultaneous AFM and FCS. <i>Biophysical Journal</i> , 2006 , 90, 4500-8	2.9	206
277	An integrated microfluidic system for reaction, high-sensitivity detection, and sorting of fluorescent cells and particles. <i>Analytical Chemistry</i> , 2003 , 75, 5767-74	7.8	202
276	Lipid dynamics and domain formation in model membranes composed of ternary mixtures of unsaturated and saturated phosphatidylcholines and cholesterol. <i>Biophysical Journal</i> , 2003 , 85, 3758-68	2.9	189
275	Combined AFM and two-focus SFCS study of raft-exhibiting model membranes. <i>ChemPhysChem</i> , 2006 , 7, 2409-18	3.2	176
274	Fluorescence correlation spectroscopy. <i>BioEssays</i> , 2012 , 34, 361-8	4.1	172
273	Bottom-up synthetic biology: engineering in a tinkerer β world. <i>Science</i> , 2011 , 333, 1252-4	33.3	165
272	A new embedded process for compartmentalized cell-free protein expression and on-line detection in microfluidic devices. <i>ChemBioChem</i> , 2005 , 6, 811-4	3.8	164
271	Studying slow membrane dynamics with continuous wave scanning fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2006 , 91, 1915-24	2.9	158
270	Loss-of-function mutations in the IL-21 receptor gene cause a primary immunodeficiency syndrome. <i>Journal of Experimental Medicine</i> , 2013 , 210, 433-43	16.6	156
269	MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13382-13392	16.4	155
268	Probing the endocytic pathway in live cells using dual-color fluorescence cross-correlation analysis. <i>Biophysical Journal</i> , 2002 , 83, 1184-93	2.9	151
267	Kinetic investigations by fluorescence correlation spectroscopy: the analytical and diagnostic potential of diffusion studies. <i>Biophysical Chemistry</i> , 1997 , 66, 211-28	3.5	150

266	Fluorescence correlation spectroscopy and fluorescence cross-correlation spectroscopy reveal the cytoplasmic origination of loaded nuclear RISC in vivo in human cells. <i>Nucleic Acids Research</i> , 2008 , 36, 6439-49	20.1	150
265	Fluorescence correlation spectroscopy for the detection and study of single molecules in biology. <i>BioEssays</i> , 2002 , 24, 758-64	4.1	149
264	Translational diffusion in lipid membranes beyond the Saffman-Delbruck approximation. <i>Biophysical Journal</i> , 2008 , 94, L41-3	2.9	137
263	Min protein patterns emerge from rapid rebinding and membrane interaction of MinE. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 577-83	17.6	136
262	Accurate determination of membrane dynamics with line-scan FCS. <i>Biophysical Journal</i> , 2009 , 96, 1999-2008	2.9	136
261	SNAREs prefer liquid-disordered over "raft" (liquid-ordered) domains when reconstituted into giant unilamellar vesicles. <i>Journal of Biological Chemistry</i> , 2004 , 279, 37951-5	5.4	132
260	Functional convergence of hopanoids and sterols in membrane ordering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 14236-40	11.5	122
259	Pore formation by a Bax-derived peptide: effect on the line tension of the membrane probed by AFM. <i>Biophysical Journal</i> , 2007 , 93, 103-12	2.9	118
258	A protease assay for two-photon crosscorrelation and FRET analysis based solely on fluorescent proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 12161-65	11.5	117
257	Intracellular calmodulin availability accessed with two-photon cross-correlation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 105-10	11.5	116
256	Spatial two-photon fluorescence cross-correlation spectroscopy for controlling molecular transport in microfluidic structures. <i>Analytical Chemistry</i> , 2002 , 74, 4472-9	7.8	115
255	Modular scanning FCS quantifies receptor-ligand interactions in living multicellular organisms. <i>Nature Methods</i> , 2009 , 6, 643-5	21.6	114
254	Equinatoxin II permeabilizing activity depends on the presence of sphingomyelin and lipid phase coexistence. <i>Biophysical Journal</i> , 2008 , 95, 691-8	2.9	111
253	Raft domain reorganization driven by short- and long-chain ceramide: a combined AFM and FCS study. <i>Langmuir</i> , 2007 , 23, 7659-65	4	108
252	Membrane promotes tBID interaction with BCL(XL). <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 1178-85	17.6	106
251	Membrane sculpting by curved DNA origami scaffolds. <i>Nature Communications</i> , 2018 , 9, 811	17.4	105
250	New concepts for fluorescence correlation spectroscopy on membranes. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3487-97	3.6	103
249	Two-photon cross-correlation analysis of intracellular reactions with variable stoichiometry. <i>Biophysical Journal</i> , 2005 , 88, 4319-36	2.9	101

248	Reconstitution of self-organizing protein gradients as spatial cues in cell-free systems. <i>ELife</i> , 2014 , 3,	8.9	99
247	Cholesterol and sphingomyelin drive ligand-independent T-cell antigen receptor nanoclustering. <i>Journal of Biological Chemistry</i> , 2012 , 287, 42664-74	5.4	98
246	Asymmetric GUVs prepared by MCD-mediated lipid exchange: an FCS study. <i>Biophysical Journal</i> , 2011 , 100, L1-3	2.9	98
245	Protein self-organization: lessons from the min system. <i>Annual Review of Biophysics</i> , 2011 , 40, 315-36	21.1	98
244	Synthetic biology of minimal systems. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2009 , 44, 223-42	8.7	97
243	Myosin motors fragment and compact membrane-bound actin filaments. <i>ELife</i> , 2013 , 2, e00116	8.9	95
242	Geometry sensing by self-organized protein patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15283-8	11.5	93
241	Light-induced flickering of DsRed provides evidence for distinct and interconvertible fluorescent states. <i>Biophysical Journal</i> , 2001 , 81, 1776-85	2.9	92
240	Near-critical fluctuations and cytoskeleton-assisted phase separation lead to subdiffusion in cell membranes. <i>Biophysical Journal</i> , 2011 , 100, 80-9	2.9	89
239	Fluorescence correlation studies of lipid domains in model membranes. <i>Molecular Membrane Biology</i> , 2006 , 23, 29-39	3.4	83
238	The role of lipids in VDAC oligomerization. <i>Biophysical Journal</i> , 2012 , 102, 523-31	2.9	82
237	Triple-color coincidence analysis: one step further in following higher order molecular complex formation. <i>Biophysical Journal</i> , 2004 , 86, 506-16	2.9	82
236	Beating Vesicles: Encapsulated Protein Oscillations Cause Dynamic Membrane Deformations. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16286-16290	16.4	82
235	Role of ceramide in membrane protein organization investigated by combined AFM and FCS. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 1356-64	3.8	81
234	Reconstitution of pole-to-pole oscillations of min proteins in microengineered polydimethylsiloxane compartments. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 459-62	16.4	79
233	Yeast lipids can phase-separate into micrometer-scale membrane domains. <i>Journal of Biological Chemistry</i> , 2010 , 285, 30224-32	5.4	79
232	In situ fluorescence analysis demonstrates active siRNA exclusion from the nucleus by Exportin 5. <i>Nucleic Acids Research</i> , 2006 , 34, 1369-80	20.1	79
231	Excitation spectra and brightness optimization of two-photon excited probes. <i>Biophysical Journal</i> , 2012 , 102, 934-44	2.9	76

230	Electron multiplying CCD based detection for spatially resolved fluorescence correlation spectroscopy. <i>Optics Express</i> , 2006 , 14, 5013-20	3.3	74
229	Amphipathic DNA origami nanoparticles to scaffold and deform lipid membrane vesicles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6501-5	16.4	73
228	Reconstitution and anchoring of cytoskeleton inside giant unilamellar vesicles. <i>ChemBioChem</i> , 2008 , 9, 2673-81	3.8	73
227	Lypd6 enhances Wnt/ β -catenin signaling by promoting Lrp6 phosphorylation in raft plasma membrane domains. <i>Developmental Cell</i> , 2013 , 26, 331-45	10.2	72
226	Intracellular applications of fluorescence correlation spectroscopy: prospects for neuroscience. <i>Current Opinion in Neurobiology</i> , 2003 , 13, 583-90	7.6	71
225	Pores formed by Bax β relax to a smaller size and keep at equilibrium. <i>Biophysical Journal</i> , 2010 , 99, 2917-25	2.9	70
224	Adaptive lipid packing and bioactivity in membrane domains. <i>PLoS ONE</i> , 2015 , 10, e0123930	3.7	70
223	Techniques for single molecule sequencing. <i>Bioimaging</i> , 1997 , 5, 139-152		67
222	Lateral membrane diffusion modulated by a minimal actin cortex. <i>Biophysical Journal</i> , 2013 , 104, 1465-75.9		65
221	Fluorescence techniques to study lipid dynamics. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011 , 3, a009803		64
220	Determining protease activity in vivo by fluorescence cross-correlation analysis. <i>Biophysical Journal</i> , 2005 , 89, 2770-82	2.9	63
219	Triple FRET: a tool for studying long-range molecular interactions. <i>ChemPhysChem</i> , 2003 , 4, 745-8	3.2	63
218	Single-stranded nucleic acids promote SAMHD1 complex formation. <i>Journal of Molecular Medicine</i> , 2013 , 91, 759-70	5.5	62
217	How phospholipid-cholesterol interactions modulate lipid lateral diffusion, as revealed by fluorescence correlation spectroscopy. <i>Journal of Fluorescence</i> , 2006 , 16, 671-8	2.4	62
216	DNA Nanostructures on Membranes as Tools for Synthetic Biology. <i>Biophysical Journal</i> , 2016 , 110, 1698-1707	1.7	62
215	Treadmilling analysis reveals new insights into dynamic FtsZ ring architecture. <i>PLoS Biology</i> , 2018 , 16, e2004845	9.7	61
214	Spontaneous stretching of DNA in a two-dimensional nanoslit. <i>Nano Letters</i> , 2007 , 7, 1270-5	11.5	60
213	All-or-none versus graded: single-vesicle analysis reveals lipid composition effects on membrane permeabilization. <i>Biophysical Journal</i> , 2010 , 99, 3619-28	2.9	59

212	Breakdown of axonal synaptic vesicle precursor transport by microglial nitric oxide. <i>Journal of Neuroscience</i> , 2005 , 25, 352-62	6.6	59
211	Model membrane platforms to study protein-membrane interactions. <i>Molecular Membrane Biology</i> , 2012 , 29, 144-54	3.4	58
210	Switchable domain partitioning and diffusion of DNA origami rods on membranes. <i>Faraday Discussions</i> , 2013 , 161, 31-43; discussion 113-50	3.6	57
209	PyCorrFit-generic data evaluation for fluorescence correlation spectroscopy. <i>Bioinformatics</i> , 2014 , 30, 2532-3	7.2	56
208	Penetration of amphiphilic quantum dots through model and cellular plasma membranes. <i>ACS Nano</i> , 2012 , 6, 2150-6	16.7	56
207	An order of magnitude faster DNA-PAINT imaging by optimized sequence design and buffer conditions. <i>Nature Methods</i> , 2019 , 16, 1101-1104	21.6	55
206	MinCDE exploits the dynamic nature of FtsZ filaments for its spatial regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E1192-200	11.5	52
205	Efficient electroformation of supergiant unilamellar vesicles containing cationic lipids on ITO-coated electrodes. <i>Langmuir</i> , 2012 , 28, 5518-21	4	50
204	Translational and rotational diffusion of micrometer-sized solid domains in lipid membranes. <i>Soft Matter</i> , 2012 , 8, 7552	3.6	50
203	Membrane binding of MinE allows for a comprehensive description of Min-protein pattern formation. <i>PLoS Computational Biology</i> , 2013 , 9, e1003347	5	50
202	Two-photon fluorescence coincidence analysis: rapid measurements of enzyme kinetics. <i>Biophysical Journal</i> , 2002 , 83, 1671-81	2.9	50
201	Towards a bottom-up reconstitution of bacterial cell division. <i>Trends in Cell Biology</i> , 2012 , 22, 634-43	18.3	49
200	PI(4,5)P2 degradation promotes the formation of cytoskeleton-free model membrane systems. <i>ChemPhysChem</i> , 2009 , 10, 2805-12	3.2	49
199	Dehydration damage of domain-exhibiting supported bilayers: an AFM study on the protective effects of disaccharides and other stabilizing substances. <i>Langmuir</i> , 2005 , 21, 6317-23	4	49
198	Surface topology engineering of membranes for the mechanical investigation of the tubulin homologue FtsZ. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11858-62	16.4	48
197	Supercritical angle fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2008 , 94, 221-9	2.9	48
196	Characterization of protein dynamics in asymmetric cell division by scanning fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2008 , 95, 5476-86	2.9	48
195	124-Color Super-resolution Imaging by Engineering DNA-PAINT Blinking Kinetics. <i>Nano Letters</i> , 2019 , 19, 2641-2646	11.5	47

194	Optical Control of Lipid Rafts with Photoswitchable Ceramides. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12981-12986	16.4	46
193	Oligomerization and pore formation by equinatoxin II inhibit endocytosis and lead to plasma membrane reorganization. <i>Journal of Biological Chemistry</i> , 2011 , 286, 37768-77	5.4	46
192	Asymmetric supported lipid bilayer formation via methyl- β -cyclodextrin mediated lipid exchange: influence of asymmetry on lipid dynamics and phase behavior. <i>Langmuir</i> , 2014 , 30, 7475-84	4	44
191	Stability of lipid domains. <i>FEBS Letters</i> , 2010 , 584, 1653-8	3.8	44
190	Protein Patterns and Oscillations on Lipid Monolayers and in Microdroplets. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13455-13459	16.4	44
189	MinE conformational switching confers robustness on self-organized Min protein patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4553-4558	11.5	43
188	Intracellular localization and routing of miRNA and RNAi pathway components. <i>Current Topics in Medicinal Chemistry</i> , 2012 , 12, 79-88	3	43
187	Differential lipid packing abilities and dynamics in giant unilamellar vesicles composed of short-chain saturated glycerol-phospholipids, sphingomyelin and cholesterol. <i>Chemistry and Physics of Lipids</i> , 2005 , 135, 169-80	3.7	43
186	Focus on composition and interaction potential of single-pass transmembrane domains. <i>Proteomics</i> , 2010 , 10, 4196-208	4.8	42
185	Total internal reflection fluorescence correlation spectroscopy: effects of lateral diffusion and surface-generated fluorescence. <i>Biophysical Journal</i> , 2008 , 95, 390-9	2.9	42
184	Transport efficiency of membrane-anchored kinesin-1 motors depends on motor density and diffusivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E7185-E7193	11.5	41
183	Single molecule techniques for the study of membrane proteins. <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 257-66	5.7	41
182	Flat-top TIRF illumination boosts DNA-PAINT imaging and quantification. <i>Nature Communications</i> , 2019 , 10, 1268	17.4	39
181	Cytoskeletal pinning controls phase separation in multicomponent lipid membranes. <i>Biophysical Journal</i> , 2015 , 108, 1104-13	2.9	39
180	DNA origami nanoneedles on freestanding lipid membranes as a tool to observe isotropic-nematic transition in two dimensions. <i>Nano Letters</i> , 2015 , 15, 649-55	11.5	39
179	Phosphatidylethanolamine critically supports internalization of cell-penetrating protein C inhibitor. <i>Journal of Cell Biology</i> , 2007 , 179, 793-804	7.3	38
178	Pattern formation on membranes and its role in bacterial cell division. <i>Current Opinion in Cell Biology</i> , 2016 , 38, 52-9	9	37
177	Reconstitution of cytoskeletal protein assemblies for large-scale membrane transformation. <i>Current Opinion in Chemical Biology</i> , 2014 , 22, 18-26	9.7	37

176	Essential role of endocytosis for interleukin-4-receptor-mediated JAK/STAT signalling. <i>Journal of Cell Science</i> , 2015 , 128, 3781-95	5.3	36
175	Minimal systems to study membrane-cytoskeleton interactions. <i>Current Opinion in Biotechnology</i> , 2012 , 23, 758-65	11.4	36
174	Ceramide kinase regulates phospholipase C and phosphatidylinositol 4, 5, bisphosphate in phototransduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 20063-8	11.5	36
173	Supported lipid bilayers on spacious and pH-responsive polymer cushions with varied hydrophilicity. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 6373-8	3.4	36
172	Coordinated recruitment of Spir actin nucleators and myosin V motors to Rab11 vesicle membranes. <i>ELife</i> , 2016 , 5,	8.9	36
171	More from less - bottom-up reconstitution of cell biology. <i>Journal of Cell Science</i> , 2019 , 132,	5.3	35
170	Correcting for spectral cross-talk in dual-color fluorescence cross-correlation spectroscopy. <i>ChemPhysChem</i> , 2012 , 13, 1221-31	3.2	35
169	A comprehensive framework for fluorescence cross-correlation spectroscopy. <i>New Journal of Physics</i> , 2010 , 12, 113009	2.9	35
168	Cell-free protein synthesis in micro compartments: building a minimal cell from biobricks. <i>New Biotechnology</i> , 2017 , 39, 199-205	6.4	34
167	Quantifying lipid diffusion by fluorescence correlation spectroscopy: a critical treatise. <i>Langmuir</i> , 2012 , 28, 13395-404	4	34
166	MinC, MinD, and MinE drive counter-oscillation of early-cell-division proteins prior to Escherichia coli septum formation. <i>MBio</i> , 2013 , 4, e00856-13	7.8	34
165	Bottom-up synthetic biology: reconstitution in space and time. <i>Current Opinion in Biotechnology</i> , 2019 , 60, 179-187	11.4	33
164	Fluorescence correlation spectroscopy for the study of membrane dynamics and organization in giant unilamellar vesicles. <i>Methods in Molecular Biology</i> , 2010 , 606, 493-508	1.4	33
163	Lateral Diffusion of Membrane Lipid-Anchored Probes before and after Aggregation of Cell Surface IgE-Receptors <i>Journal of Physical Chemistry A</i> , 2003 , 107, 8310-8318	2.8	33
162	Heated gas bubbles enrich, crystallize, dry, phosphorylate and encapsulate prebiotic molecules. <i>Nature Chemistry</i> , 2019 , 11, 779-788	17.6	32
161	Dynamics and interaction of interleukin-4 receptor subunits in living cells. <i>Biophysical Journal</i> , 2014 , 107, 2515-27	2.9	31
160	Photobleaching in two-photon scanning fluorescence correlation spectroscopy. <i>ChemPhysChem</i> , 2008 , 9, 147-58	3.2	31
159	Synthetic cell division via membrane-transforming molecular assemblies. <i>BMC Biology</i> , 2019 , 17, 43	7.3	30

158	Scanning FCS for the characterization of protein dynamics in live cells. <i>Methods in Enzymology</i> , 2010 , 472, 317-43	1.7	30
157	Four-color fluorescence correlation spectroscopy realized in a grating-based detection platform. <i>Optics Letters</i> , 2005 , 30, 2266-8	3	30
156	Preparation of micrometer-sized free-standing membranes. <i>ChemPhysChem</i> , 2011 , 12, 2568-71	3.2	29
155	Cholesterol slows down the lateral mobility of an oxidized phospholipid in a supported lipid bilayer. <i>Langmuir</i> , 2010 , 26, 17322-9	4	29
154	The E. coli MinCDE system in the regulation of protein patterns and gradients. <i>Cellular and Molecular Life Sciences</i> , 2019 , 76, 4245-4273	10.3	28
153	Single cell analysis of ligand binding and complex formation of interleukin-4 receptor subunits. <i>Biophysical Journal</i> , 2011 , 101, 2360-9	2.9	28
152	Scanning Dual-Color Cross-Correlation Analysis for Dynamic Co-Localization Studies of Immobile Molecules. <i>Single Molecules</i> , 2002 , 3, 201-210		28
151	Jump-starting life? Fundamental aspects of synthetic biology. <i>Journal of Cell Biology</i> , 2015 , 210, 687-90	7.3	27
150	Quantifying Reversible Surface Binding via Surface-Integrated Fluorescence Correlation Spectroscopy. <i>Nano Letters</i> , 2018 , 18, 3185-3192	11.5	27
149	Analyzing single protein molecules using optical methods. <i>Current Opinion in Biotechnology</i> , 2001 , 12, 382-6	11.4	27
148	Control of lipid domain organization by a biomimetic contractile actomyosin cortex. <i>ELife</i> , 2017 , 6,	8.9	27
147	The MinDE system is a generic spatial cue for membrane protein distribution in vitro. <i>Nature Communications</i> , 2018 , 9, 3942	17.4	27
146	Freeze-thaw cycles induce content exchange between cell-sized lipid vesicles. <i>New Journal of Physics</i> , 2018 , 20, 055008	2.9	25
145	FRET and FCS--friends or foes?. <i>ChemPhysChem</i> , 2011 , 12, 532-41	3.2	25
144	MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. <i>Angewandte Chemie</i> , 2018 , 130, 13566-13577	3.6	25
143	Surface topology assisted alignment of Min protein waves. <i>FEBS Letters</i> , 2014 , 588, 2545-9	3.8	24
142	Multimerizable HIV Gag derivative binds to the liquid-disordered phase in model membranes. <i>Cellular Microbiology</i> , 2013 , 15, 237-47	3.9	24
141	Effect of anchor positioning on binding and diffusion of elongated 3D DNA nanostructures on lipid membranes. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 194001	3	24

140	Large-scale modulation of reconstituted Min protein patterns and gradients by defined mutations in MinE β membrane targeting sequence. <i>PLoS ONE</i> , 2017 , 12, e0179582	3.7	23
139	Detergent-activated BAX protein is a monomer. <i>Journal of Biological Chemistry</i> , 2009 , 284, 23935-46	5.4	23
138	Myosin-II activity generates a dynamic steady state with continuous actin turnover in a minimal actin cortex. <i>Journal of Cell Science</i> , 2018 , 132,	5.3	23
137	Photo-Induced Depletion of Binding Sites in DNA-PAINT Microscopy. <i>Molecules</i> , 2018 , 23,	4.8	23
136	Control of Membrane Binding and Diffusion of Cholesteryl-Modified DNA Origami Nanostructures by DNA Spacers. <i>Langmuir</i> , 2018 , 34, 14921-14931	4	23
135	FtsZ Polymers Tethered to the Membrane by ZipA Are Susceptible to Spatial Regulation by Min Waves. <i>Biophysical Journal</i> , 2015 , 108, 2371-83	2.9	22
134	The design of MACs (minimal actin cortices). <i>Cytoskeleton</i> , 2013 , 70, 706-17	2.4	21
133	Long-range transport of giant vesicles along microtubule networks. <i>ChemPhysChem</i> , 2012 , 13, 1001-6	3.2	21
132	Caspase-8 binding to cardiolipin in giant unilamellar vesicles provides a functional docking platform for bid. <i>PLoS ONE</i> , 2013 , 8, e55250	3.7	21
131	Electrostatic self-assembly of charged colloids and macromolecules in a fluidic nanoslit. <i>Small</i> , 2008 , 4, 1900-6	11	21
130	Accumulation and filtering of nanoparticles in microchannels using electrohydrodynamically induced vortical flows. <i>Electrophoresis</i> , 2008 , 29, 2987-96	3.6	21
129	C-terminal fluorescence labeling of proteins for interaction studies on the single-molecule level. <i>ChemBioChem</i> , 2006 , 7, 891-5	3.8	21
128	Studying reaction kinetics by simultaneous FRET and cross-correlation analysis in a miniaturized continuous flow reactor. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 4416-4420	3.6	21
127	Membrane association and remodeling by intraflagellar transport protein IFT172. <i>Nature Communications</i> , 2018 , 9, 4684	17.4	21
126	Toward Absolute Molecular Numbers in DNA-PAINT. <i>Nano Letters</i> , 2019 , 19, 8182-8190	11.5	20
125	Asymmetry determines the effects of natural ceramides on model membranes. <i>Soft Matter</i> , 2009 , 5, 3279	3.6	20
124	Two-photon fluorescence cross-correlation spectroscopy. <i>ChemPhysChem</i> , 2001 , 2, 269-72	3.2	20
123	Phosphoinositides regulate force-independent interactions between talin, vinculin, and actin. <i>ELife</i> , 2020 , 9,	8.9	20

122	Single Particle Plasmon Sensors as Label-Free Technique To Monitor MinDE Protein Wave Propagation on Membranes. <i>Nano Letters</i> , 2016 , 16, 3540-4	11.5	20
121	High-Speed Atomic Force Microscopy Reveals the Inner Workings of the MinDE Protein Oscillator. <i>Nano Letters</i> , 2018 , 18, 288-296	11.5	20
120	Fluorescence fluctuation microscopy: a diversified arsenal of methods to investigate molecular dynamics inside cells. <i>Current Opinion in Structural Biology</i> , 2014 , 28, 69-76	8.1	19
119	Automated suppression of sample-related artifacts in Fluorescence Correlation Spectroscopy. <i>Optics Express</i> , 2010 , 18, 11073-82	3.3	19
118	Characterization of interaction between cationic lipid-oligonucleotide complexes and cellular membrane lipids using confocal imaging and fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2005 , 88, 305-16	2.9	19
117	Reconstitution of contractile actomyosin rings in vesicles. <i>Nature Communications</i> , 2021 , 12, 2254	17.4	19
116	Stationary Patterns in a Two-Protein Reaction-Diffusion System. <i>ACS Synthetic Biology</i> , 2019 , 8, 148-157	5.7	19
115	Dual-color fluorescence cross-correlation spectroscopy with continuous laser excitation in a confocal setup. <i>Methods in Enzymology</i> , 2013 , 518, 43-70	1.7	18
114	Optical Control of a Biological Reaction-Diffusion System. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2362-2366	16.4	17
113	Anti-HIV-1 antibodies 2F5 and 4E10 interact differently with lipids to bind their epitopes. <i>Aids</i> , 2011 , 25, 419-28	3.5	17
112	Quantifying translational mobility in neurons: comparison between current optical techniques. <i>Journal of Neuroscience</i> , 2010 , 30, 16409-16	6.6	17
111	The mobility of phytochrome within protonemal tip cells of the moss <i>Ceratodon purpureus</i> , monitored by fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2004 , 87, 2013-21	2.9	17
110	Single Particle Tracking and Super-Resolution Imaging of Membrane-Assisted Stop-and-Go Diffusion and Lattice Assembly of DNA Origami. <i>ACS Nano</i> , 2019 , 13, 996-1002	16.7	17
109	Membrane targeting of the SpirFormin actin nucleator complex requires a sequential handshake of polar interactions. <i>Journal of Biological Chemistry</i> , 2015 , 290, 6428-44	5.4	16
108	Propagation of MinCDE waves on free-standing membranes. <i>Environmental Microbiology</i> , 2013 , 15, 3319-26	5.26	16
107	Confocal microscopy of giant vesicles supports the absence of HIV-1 neutralizing 2F5 antibody reactivity to plasma membrane phospholipids. <i>FEBS Letters</i> , 2010 , 584, 1591-6	3.8	16
106	Simultaneous two-photon fluorescence correlation spectroscopy and lifetime imaging of dye molecules in submicrometer fluidic structures. <i>Microscopy Research and Technique</i> , 2007 , 70, 459-66	2.8	16
105	An ultrasensitive site-specific DNA recombination assay based on dual-color fluorescence cross-correlation spectroscopy. <i>Nucleic Acids Research</i> , 2005 , 33, e60	20.1	16

104	TIR-FCS: staying on the surface can sometimes be better. <i>Biophysical Journal</i> , 2003 , 85, 2783-4	2.9	16
103	Design of biochemical pattern forming systems from minimal motifs. <i>ELife</i> , 2019 , 8,	8.9	16
102	Reversible membrane deformations by straight DNA origami filaments. <i>Soft Matter</i> , 2021 , 17, 276-287	3.6	16
101	Cell-Free Protein Synthesis and Its Perspectives for Assembling Cells from the Bottom-Up. <i>Advanced Biology</i> , 2019 , 3, e1800322	3.5	15
100	Cross-linked and pH sensitive supported polymer bilayers from polymersomes - studies concerning thickness, rigidity and fluidity. <i>Soft Matter</i> , 2014 , 10, 75-82	3.6	15
99	Photoconversion of bodipy-labeled lipid analogues. <i>ChemBioChem</i> , 2013 , 14, 695-8	3.8	15
98	Protein-membrane interactions: the virtue of minimal systems in systems biology. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2011 , 3, 269-80	6.6	15
97	Plasmonic Nanosensors Reveal a Height Dependence of MinDE Protein Oscillations on Membrane Features. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17901-17906	16.4	15
96	Toward Spatially Regulated Division of Protocells: Insights into the E. coli Min System from in Vitro Studies. <i>Life</i> , 2014 , 4, 915-28	3	14
95	In vitro Reconstitution of a Membrane Switch Mechanism for the Polarity Protein LGL. <i>Journal of Molecular Biology</i> , 2016 , 428, 4828-4842	6.5	14
94	Amphipathic DNA Origami Nanoparticles to Scaffold and Deform Lipid Membrane Vesicles. <i>Angewandte Chemie</i> , 2015 , 127, 6601-6605	3.6	13
93	How Simple Could Life Be?. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10998-11002	16.4	12
92	Effect of temperature on the formation of liquid phase-separating giant unilamellar vesicles (GUV). <i>Chemistry and Physics of Lipids</i> , 2012 , 165, 630-7	3.7	12
91	Circular scanning fluorescence correlation spectroscopy on membranes. <i>Optics Express</i> , 2011 , 19, 25006-25013	3.3	12
90	Independence of maximum single molecule fluorescence count rate on the temporal and spectral laser pulse width in two-photon FCS. <i>Journal of Fluorescence</i> , 2007 , 17, 805-10	2.4	12
89	Optical manipulation of sphingolipid biosynthesis using photoswitchable ceramides. <i>ELife</i> , 2019 , 8,	8.9	12
88	Protein Reconstitution Inside Giant Unilamellar Vesicles. <i>Annual Review of Biophysics</i> , 2021 , 50, 525-548	21.1	12
87	Light-Induced Printing of Protein Structures on Membranes in Vitro. <i>Nano Letters</i> , 2018 , 18, 7133-7140	11.5	12

86	Protein Patterns and Oscillations on Lipid Monolayers and in Microdroplets. <i>Angewandte Chemie</i> , 2016 , 128, 13653-13657	3.6	11
85	Cellular dynamics of Ku: characterization and purification of Ku-eGFP. <i>ChemBioChem</i> , 2008 , 9, 1251-9	3.8	11
84	Protein Pattern Formation 2018 , 229-260		11
83	In Vitro Reconstitution of Self-Organizing Protein Patterns on Supported Lipid Bilayers. <i>Journal of Visualized Experiments</i> , 2018 ,	1.6	11
82	Photophysical Behavior of mNeonGreen, an Evolutionarily Distant Green Fluorescent Protein. <i>Biophysical Journal</i> , 2018 , 114, 2419-2431	2.9	10
81	Direct characterization of the evanescent field in objective-type total internal reflection fluorescence microscopy. <i>Optics Express</i> , 2018 , 26, 20492-20506	3.3	10
80	Diffusion of Single-Pass Transmembrane Receptors: From the Plasma Membrane into Giant Liposomes. <i>Journal of Membrane Biology</i> , 2017 , 250, 393-406	2.3	10
79	ESCRT-III mediated cell division in <i>Sulfolobus acidocaldarius</i> - a reconstitution perspective. <i>Frontiers in Microbiology</i> , 2014 , 5, 257	5.7	10
78	Fluorescence cross-correlation spectroscopy reveals mechanistic insights into the effect of 2PO-methyl modified siRNAs in living cells. <i>Biophysical Journal</i> , 2011 , 100, 2981-90	2.9	10
77	Membrane domain-disrupting effects of 4-substitued cholesterol derivatives. <i>Langmuir</i> , 2008 , 24, 8807-12		10
76	Temperature-sensitive protein expression in protocells. <i>Chemical Communications</i> , 2019 , 55, 6421-6424	5.8	9
75	A monolayer assay tailored to investigate lipid-protein systems. <i>ChemPhysChem</i> , 2013 , 14, 1877-81	3.2	9
74	Influence of glycosaminoglycans on lipid dynamics in supported phospholipid bilayers. <i>Soft Matter</i> , 2013 , 9, 3859	3.6	9
73	Time correlated fluorescence characterization of an asymmetrically focused flow in a microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2011 , 10, 551-561	2.8	9
72	A diffusio-phoretic mechanism for ATP-driven transport without motor proteins. <i>Nature Physics</i> , 2021 , 17, 850-858	16.2	9
71	Molecular-scale visualization of sarcomere contraction within native cardiomyocytes. <i>Nature Communications</i> , 2021 , 12, 4086	17.4	9
70	Active shape oscillations of giant vesicles with cyclic closure and opening of membrane necks. <i>Soft Matter</i> , 2021 , 17, 319-330	3.6	9
69	Tanzende Vesikel: Proteinoszillationen führen zu periodischer Membranverformung. <i>Angewandte Chemie</i> , 2018 , 130, 16522-16527	3.6	9

68	Shaping Giant Membrane Vesicles in 3D-Printed Protein Hydrogel Cages. <i>Small</i> , 2020 , 16, e1906259	11	8
67	Reverse and forward engineering of protein pattern formation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	8
66	FtsZ Reorganization Facilitates Deformation of Giant Vesicles in Microfluidic Traps*. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21372-21376	16.4	8
65	Functional Modules of Minimal Cell Division for Synthetic Biology. <i>Advanced Biology</i> , 2019 , 3, e1800315	3.5	7
64	Reconstituting geometry-modulated protein patterns in membrane compartments. <i>Methods in Cell Biology</i> , 2015 , 128, 149-63	1.8	7
63	Introducing a fluorescence-based standard to quantify protein partitioning into membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 2932-41	3.8	7
62	Single DNA molecules on freestanding and supported cationic lipid bilayers: diverse conformational dynamics controlled by the local bilayer properties. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 074001	3	7
61	Bacterial cell division: a swirling ring to rule them all?. <i>Current Biology</i> , 2014 , 24, R157-9	6.3	7
60	Rekonstitution der Pol-zu-Pol-Oszillationen von Min-Proteinen in mikrotechnisch hergestellten Polydimethylsiloxan-Kammern. <i>Angewandte Chemie</i> , 2013 , 125, 477-481	3.6	7
59	Division in synthetic cells. <i>Emerging Topics in Life Sciences</i> , 2019 , 3, 551-558	3.5	7
58	Actin crosslinker competition and sorting drive emergent GUV size-dependent actin network architecture. <i>Communications Biology</i> , 2021 , 4, 1136	6.7	7
57	Reconstitution of Protein Dynamics Involved in Bacterial Cell Division. <i>Sub-Cellular Biochemistry</i> , 2017 , 84, 419-444	5.5	6
56	Cytoskeletal and Actin-Based Polymerization Motors and Their Role in Minimal Cell Design. <i>Advanced Biology</i> , 2019 , 3, e1800311	3.5	6
55	Local Self-Enhancement of MinD Membrane Binding in Min Protein Pattern Formation. <i>Journal of Molecular Biology</i> , 2020 , 432, 3191-3204	6.5	6
54	Reconstitution and Coupling of DNA Replication and Segregation in a Biomimetic System. <i>ChemBioChem</i> , 2019 , 20, 2633-2642	3.8	6
53	Mass-sensitive particle tracking to elucidate the membrane-associated MinDE reaction cycle. <i>Nature Methods</i> , 2021 , 18, 1239-1246	21.6	6
52	Bidirectional FtsZ filament treadmilling transforms lipid membranes via torsional stress		6
51	FtsZ induces membrane deformations via torsional stress upon GTP hydrolysis. <i>Nature Communications</i> , 2021 , 12, 3310	17.4	6

50	De novo design of a reversible phosphorylation-dependent switch for membrane targeting. <i>Nature Communications</i> , 2021 , 12, 1472	17.4	6
49	FCS Analysis of Protein Mobility on Lipid Monolayers. <i>Biophysical Journal</i> , 2018 , 114, 2444-2454	2.9	5
48	There and back again: from the origin of life to single molecules. <i>European Biophysics Journal</i> , 2018 , 47, 493-498	1.9	5
47	A novel homogenous assay for topoisomerase II action and inhibition. <i>ChemBioChem</i> , 2005 , 6, 920-6	3.8	5
46	Reconstitution of contractile actomyosin rings in vesicles		5
45	The speed of FtsZ treadmilling is tightly regulated by membrane binding. <i>Scientific Reports</i> , 2020 , 10, 10447	4.9	5
44	Tracking single particles for hours via continuous DNA-mediated fluorophore exchange. <i>Nature Communications</i> , 2021 , 12, 4432	17.4	5
43	Design of Sealable Custom-Shaped Cell Mimicries Based on Self-Assembled Monolayers on CYTOP Polymer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21372-21380	9.5	4
42	Symmetry Breaking and Emergence of Directional Flows in Minimal Actomyosin Cortices. <i>Cells</i> , 2020 , 9,	7.9	4
41	Optical Control of a Biological ReactionDiffusion System. <i>Angewandte Chemie</i> , 2018 , 130, 2386-2390	3.6	4
40	Surface Topology Engineering of Membranes for the Mechanical Investigation of the Tubulin Homologue FtsZ. <i>Angewandte Chemie</i> , 2012 , 124, 12028-12032	3.6	4
39	CTP-controlled liquid-liquid phase separation of ParB.. <i>Journal of Molecular Biology</i> , 2021 , 434, 167401	6.5	4
38	Fine-Tuning Protein Self-Organization by Orthogonal Chemo-Optogenetic Tools. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 4501-4506	16.4	4
37	Non-Equilibrium Large-Scale Membrane Transformations Driven by MinDE Biochemical Reaction Cycles. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6496-6502	16.4	4
36	Hydration Layer of Only a Few Molecules Controls Lipid Mobility in Biomimetic Membranes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14551-14562	16.4	4
35	Fluorescence Correlation Spectroscopy to Examine Protein-Lipid Interactions in Membranes. <i>Methods in Molecular Biology</i> , 2019 , 2003, 415-447	1.4	3
34	Author response: Reconstitution of self-organizing protein gradients as spatial cues in cell-free systems 2014 ,		3
33	Actin crosslinker competition and sorting drive emergent GUV size-dependent actin network architecture		3

32	How Can Microfluidic and Microfabrication Approaches Make Experiments More Physiologically Relevant?. <i>Cell Systems</i> , 2020 , 11, 209-211	10.6	3
31	Self-organized protein patterns: The MinCDE and ParABS systems. <i>Current Opinion in Cell Biology</i> , 2021 , 72, 106-115	9	3
30	Diffusion coefficients and dissociation constants of enhanced green fluorescent protein binding to free standing membranes. <i>Data in Brief</i> , 2015 , 5, 537-41	1.2	2
29	Biology and the art of abstraction. <i>Biophysical Reviews</i> , 2017 , 9, 273-275	3.7	2
28	Revolving around constriction by ESCRT-III. <i>Nature Cell Biology</i> , 2017 , 19, 754-756	23.4	2
27	ATP driven diffusiophoresis: active cargo transport without motor proteins		2
26	Fine-Tuning Protein Self-Organization by Orthogonal Chemo-Optogenetic Tools. <i>Angewandte Chemie</i> , 2021 , 133, 4551-4556	3.6	2
25	3D printed protein-based robotic structures actuated by molecular motor assemblies. <i>Nature Materials</i> , 2022 , 21, 703-709	27	2
24	Rapid Encapsulation of Reconstituted Cytoskeleton inside Giant Unilamellar Vesicles. <i>Journal of Visualized Experiments</i> , 2021 ,	1.6	1
23	Calibration-free counting of low molecular copy numbers in single DNA-PAINT localization clusters. <i>Biophysical Reports</i> , 2021 , 1, 100032		1
22	Molecular-scale visualization of sarcomere contraction within native cardiomyocytes		1
21	Microfluidic trapping of vesicles reveals membrane-tension dependent FtsZ cytoskeletal re-organisation		1
20	Increasing MinDB Membrane Affinity Yields Standing Wave Oscillations and Functional Gradients on Flat Membranes. <i>ACS Synthetic Biology</i> , 2021 , 10, 939-949	5.7	1
19	Mass-sensitive particle tracking (MSPT) to elucidate the membrane-associated MinDE reaction cycle		1
18	Hydration layer of only few molecules controls lipid mobility in biomimetic membranes		1
17	Membrane-coated 3D architectures for bottom-up synthetic biology. <i>Soft Matter</i> , 2021 , 17, 5456-5466	3.6	1
16	Dendrimersome synthetic cells harbor cell division machinery of bacteria.. <i>Advanced Materials</i> , 2022 , e2202364	24	1
15	Wie einfach kann Leben sein?. <i>Angewandte Chemie</i> , 2017 , 129, 11142-11146	3.6	0

14	Design Features to Accelerate the Higher-Order Assembly of DNA Origami on Membranes. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 13181-13191	3.4	o
13	Membrane-Mediated Self-Organization of Rod-Like DNA Origami on Supported Lipid Bilayers. <i>Advanced Materials Interfaces</i> , 2101094	4.6	o
12	FtsZ Reorganization Facilitates Deformation of Giant Vesicles in Microfluidic Traps**. <i>Angewandte Chemie</i> , 2020 , 132, 21556-21560	3.6	o
11	In vitro reconstitution of the bacterial cytoskeleton: expected and unexpected new insights. <i>Microbial Biotechnology</i> , 2019 , 12, 74-76	6.3	o
10	Switching protein patterns on membranes. <i>Current Opinion in Colloid and Interface Science</i> , 2018 , 38, 100-107	7.6	o
9	Tracing back variations in archaeal ESCRT-based cell division to protein domain architectures.. <i>PLoS ONE</i> , 2022 , 17, e0266395	3.7	o
8	Manfred Eigen (1927-2019). <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9323-9324	16.4	
7	Rekonstitution biologischer Selbstorganisation in vitro. <i>BioSpektrum</i> , 2015 , 21, 148-150	0.1	
6	Innentitelbild: Protein Patterns and Oscillations on Lipid Monolayers and in Microdroplets (Angew. Chem. 43/2016). <i>Angewandte Chemie</i> , 2016 , 128, 13548-13548	3.6	
5	Petra Schwille: Taking a minimalist approach to membranes. <i>Journal of Cell Biology</i> , 2015 , 209, 320-1	7.3	
4	Physik und Leben 2019 , 273-282		
3	Probing Biomolecular Interactions by a Pattern-Forming Peptide-Conjugate Sensor. <i>Bioconjugate Chemistry</i> , 2021 , 32, 172-181	6.3	
2	3D Printing: Shaping Giant Membrane Vesicles in 3D-Printed Protein Hydrogel Cages (Small 27/2020). <i>Small</i> , 2020 , 16, 2070151	11	
1	Non-Equilibrium Large-Scale Membrane Transformations Driven by MinDE Biochemical Reaction Cycles. <i>Angewandte Chemie</i> , 2021 , 133, 6570-6576	3.6	