

Katharina Gaus

List of Publications by Year in Descending Order

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

230
papers

10,311
citations

55
h-index

93
g-index

250
ext. papers

11,924
ext. citations

8.2
avg, IF

6.28
L-index

#	Paper	IF	Citations
230	Protein-PAINT: Superresolution microscopy with signaling proteins.. <i>Science Signaling</i> , 2022 , 15, eabg97828	32.8	0
229	Direct-laser writing for subnanometer focusing and single-molecule imaging.. <i>Nature Communications</i> , 2022 , 13, 647	17.4	2
228	How to exploit different endocytosis pathways to allow selective delivery of anticancer drugs to cancer cells over healthy cells.. <i>Chemical Science</i> , 2021 , 12, 15407-15417	9.4	0
227	The Benefits of Unnatural Amino Acid Incorporation as Protein Labels for Single Molecule Localization Microscopy. <i>Frontiers in Chemistry</i> , 2021 , 9, 641355	5	8
226	Can the Shape of Nanoparticles Enable the Targeting to Cancer Cells over Healthy Cells?. <i>Advanced Functional Materials</i> , 2021 , 31, 2007880	15.6	7
225	Canonical T cell receptor docking on peptide-MHC is essential for T cell signaling. <i>Science</i> , 2021 , 372,	33.3	8
224	3D active stabilization for single-molecule imaging. <i>Nature Protocols</i> , 2021 , 16, 497-515	18.8	6
223	Building a Total Internal Reflection Microscope (TIRF) with Active Stabilization (Feedback SMLM). <i>Bio-protocol</i> , 2021 , 11, e4074	0.9	
222	Rapid whole cell imaging reveals a calcium-APPL1-dynein nexus that regulates cohort trafficking of stimulated EGF receptors. <i>Communications Biology</i> , 2021 , 4, 224	6.7	1
221	Investigating Spatial Heterogeneity of Nanoparticles Movement in Live Cells with Pair-Correlation Microscopy and Phasor Analysis. <i>Analytical Chemistry</i> , 2021 , 93, 3803-3812	7.8	1
220	Biomechanics of T Cell Dysfunctions in Chronic Diseases. <i>Frontiers in Immunology</i> , 2021 , 12, 600829	8.4	5
219	FRET theoretical predictions concerning freely diffusive dyes inside spherical container: how to choose the best pair?. <i>Photochemical and Photobiological Sciences</i> , 2021 , 20, 275-283	4.2	0
218	Clustering of the EChain Can Initiate T Cell Receptor Signaling. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
217	Tuning of the Aggregation Behavior of Fluorinated Polymeric Nanoparticles for Improved Therapeutic Efficacy. <i>ACS Nano</i> , 2020 , 14, 7425-7434	16.7	18
216	Annexin A6 Is Critical to Maintain Glucose Homeostasis and Survival During Liver Regeneration in Mice. <i>Hepatology</i> , 2020 , 72, 2149-2164	11.2	5
215	Unveiling the Relationship between the Perovskite Precursor Solution and the Resulting Device Performance. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6251-6260	16.4	57
214	Geometric regulation of histone state directs melanoma reprogramming. <i>Communications Biology</i> , 2020 , 3, 341	6.7	13

213	Conformational States Control Lck Switching between Free and Confined Diffusion Modes in T Cells. <i>Biophysical Journal</i> , 2020 , 118, 1489-1501	2.9	2
212	Mechanobiology of antigen-induced T cell arrest. <i>Biology of the Cell</i> , 2020 , 112, 196-212	3.5	1
211	Raster adaptive optics for video rate aberration correction and large FOV multiphoton imaging. <i>Biomedical Optics Express</i> , 2020 , 11, 1032-1042	3.5	3
210	Influence of FRET and fluorescent protein maturation on the quantification of binding affinity with dual-channel fluorescence cross-correlation spectroscopy. <i>Biomedical Optics Express</i> , 2020 , 11, 6137-6153	3.5	0
209	A 3D Bioprinter Specifically Designed for the High-Throughput Production of Matrix-Embedded Multicellular Spheroids. <i>iScience</i> , 2020 , 23, 101621	6.1	20
208	T Cell Membrane Heterogeneity Aids Antigen Recognition and T Cell Activation. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 609	5.7	2
207	Ultraprecise single-molecule localization microscopy enables in situ distance measurements in intact cells. <i>Science Advances</i> , 2020 , 6, eaay8271	14.3	31
206	Monitoring the heterogeneity in single cell responses to drugs using electrochemical impedance and electrochemical noise. <i>Chemical Science</i> , 2020 , 12, 2558-2566	9.4	1
205	Nanopore blockade sensors for ultrasensitive detection of proteins in complex biological samples. <i>Nature Communications</i> , 2019 , 10, 2109	17.4	68
204	Stoichiometric quantification of spatially dense assemblies with qPAINT. <i>Nanoscale</i> , 2019 , 11, 12460-12464	4.4	9
203	Phasor histone FLIM-FRET microscopy quantifies spatiotemporal rearrangement of chromatin architecture during the DNA damage response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 7323-7332	11.5	31
202	Tethered Signaling in Inhibitory Immune Receptors. <i>Frontiers in Physics</i> , 2019 , 6,	3.9	2
201	How does T cell receptor clustering impact on signal transduction?. <i>Journal of Cell Science</i> , 2019 , 132,	5.3	24
200	Observing the Reversible Single Molecule Electrochemistry of Alexa Fluor 647 Dyes by Total Internal Reflection Fluorescence Microscopy. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14495-14498	16.4	17
199	Can single molecule localization microscopy detect nanoclusters in T cells?. <i>Current Opinion in Chemical Biology</i> , 2019 , 51, 130-137	9.7	8
198	The impact of nanoparticle shape on cellular internalisation and transport: what do the different analysis methods tell us?. <i>Materials Horizons</i> , 2019 , 6, 1538-1547	14.4	58
197	High-Content Imaging of Unbiased Chemical Perturbations Reveals that the Phenotypic Plasticity of the Actin Cytoskeleton Is Constrained. <i>Cell Systems</i> , 2019 , 9, 496-507.e5	10.6	6
196	Galectin-3 modulation of T-cell activation: mechanisms of membrane remodelling. <i>Progress in Lipid Research</i> , 2019 , 76, 101010	14.3	15

195	Observing the Reversible Single Molecule Electrochemistry of Alexa Fluor 647 Dyes by Total Internal Reflection Fluorescence Microscopy. <i>Angewandte Chemie</i> , 2019 , 131, 14637-14640	3.6	0
194	Single-molecule detection on a portable 3D-printed microscope. <i>Nature Communications</i> , 2019 , 10, 5662	17.4	21
193	tagPAINT: covalent labelling of genetically encoded protein tags for DNA-PAINT imaging. <i>Royal Society Open Science</i> , 2019 , 6, 191268	3.3	11
192	Characterization of functionalized glass and indium tin oxide surfaces as substrates for super-resolution microscopy. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 034003	3	1
191	High contrast imaging and flexible photomanipulation for quantitative in vivo multiphoton imaging with polygon scanning microscope. <i>Journal of Biophotonics</i> , 2018 , 11, e201700341	3.1	5
190	A mobile endocytic network connects clathrin-independent receptor endocytosis to recycling and promotes T cell activation. <i>Nature Communications</i> , 2018 , 9, 1597	17.4	35
189	Ultralow- and Low-Background Surfaces for Single-Molecule Localization Microscopy of Multistep Biointerfaces for Single-Molecule Sensing. <i>Langmuir</i> , 2018 , 34, 10012-10018	4	11
188	Telomere Loop Dynamics in Chromosome End Protection. <i>Molecular Cell</i> , 2018 , 71, 510-525.e6	17.6	63
187	High F-Content Perfluoropolyether-Based Nanoparticles for Targeted Detection of Breast Cancer by F Magnetic Resonance and Optical Imaging. <i>ACS Nano</i> , 2018 , 12, 9162-9176	16.7	70
186	Monolayer surface chemistry enables 2-colour single molecule localisation microscopy of adhesive ligands and adhesion proteins. <i>Nature Communications</i> , 2018 , 9, 3320	17.4	11
185	A photoelectrochemical platform for the capture and release of rare single cells. <i>Nature Communications</i> , 2018 , 9, 2288	17.4	50
184	DNA-Based Super-Resolution Microscopy: DNA-PAINT. <i>Genes</i> , 2018 , 9,	4.2	33
183	Time-Resolved Laurdan Fluorescence Reveals Insights into Membrane Viscosity and Hydration Levels. <i>Biophysical Journal</i> , 2018 , 115, 1498-1508	2.9	29
182	Rod-shaped mesoporous silica nanoparticles for nanomedicine: recent progress and perspectives. <i>Expert Opinion on Drug Delivery</i> , 2018 , 15, 881-892	8	35
181	A rapid readout for many single plasmonic nanoparticles using dark-field microscopy and digital color analysis. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 530-536	11.8	28
180	FSCS Reveals the Complexity of Lipid Domain Dynamics in the Plasma Membrane of Live Cells. <i>Biophysical Journal</i> , 2018 , 114, 2855-2864	2.9	7
179	The ATP binding cassette transporter, ABCG1, localizes to cortical actin filaments. <i>Scientific Reports</i> , 2017 , 7, 42025	4.9	16
178	Colloidal silicon quantum dots: from preparation to the modification of self-assembled monolayers for bioimaging and sensing applications 2017 ,		3

177	Turning single-molecule localization microscopy into a quantitative bioanalytical tool. <i>Nature Protocols</i> , 2017 , 12, 453-460	18.8	104
176	Flexible polygon-mirror based laser scanning microscope platform for multiphoton in-vivo imaging. <i>Journal of Biophotonics</i> , 2017 , 10, 1526-1537	3.1	9
175	Imaging galectin-3 dependent endocytosis with lattice light-sheet microscopy 2017 ,		3
174	An intermolecular FRET sensor detects the dynamics of T cell receptor clustering. <i>Nature Communications</i> , 2017 , 8, 15100	17.4	31
173	A FRET sensor enables quantitative measurements of membrane charges in live cells. <i>Nature Biotechnology</i> , 2017 , 35, 363-370	44.5	30
172	Disruption of Serinc1, which facilitates serine-derived lipid synthesis, fails to alter macrophage function, lymphocyte proliferation or autoimmune disease susceptibility. <i>Molecular Immunology</i> , 2017 , 82, 19-33	4.3	14
171	Simultaneous impedance spectroscopy and fluorescence microscopy for the real-time monitoring of the response of cells to drugs. <i>Chemical Science</i> , 2017 , 8, 1831-1840	9.4	18
170	NicoLase-An open-source diode laser combiner, fiber launch, and sequencing controller for fluorescence microscopy. <i>PLoS ONE</i> , 2017 , 12, e0173879	3.7	18
169	Real-Time Bioimpedance Sensing of Antifibrotic Drug Action in Primary Human Cells. <i>ACS Sensors</i> , 2017 , 2, 1482-1490	9.2	14
168	Towards single molecule biosensors using super-resolution fluorescence microscopy. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 1-8	11.8	18
167	Mechanisms of protein nanoscale clustering. <i>Current Opinion in Cell Biology</i> , 2017 , 44, 86-92	9	26
166	Pair correlation microscopy reveals the role of nanoparticle shape in intracellular transport and site of drug release. <i>Nature Nanotechnology</i> , 2017 , 12, 81-89	28.7	226
165	Introducing Membrane Charge and Membrane Potential to T Cell Signaling. <i>Frontiers in Immunology</i> , 2017 , 8, 1513	8.4	62
164	Protease sensing using nontoxic silicon quantum dots. <i>Journal of Biomedical Optics</i> , 2017 , 22, 1-7	3.5	10
163	Can single molecule localization microscopy be used to map closely spaced RGD nanodomains?. <i>PLoS ONE</i> , 2017 , 12, e0180871	3.7	7
162	The aPKC/Par3/Par6 Polarity Complex and Membrane Order Are Functionally Interdependent in Epithelia During Vertebrate Organogenesis. <i>Traffic</i> , 2016 , 17, 66-79	5.7	6
161	Functional role of T-cell receptor nanoclusters in signal initiation and antigen discrimination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5454-63	11.5	131
160	Biologists Wanted: New Fluorescence Fluctuation Tools for Cell Biology. <i>Biophysical Journal</i> , 2016 , 111, 677-678	2.9	

159	Effect of surface chemistry on tropomyosin binding to actin filaments on surfaces. <i>Cytoskeleton</i> , 2016 , 73, 729-738	2.4	7
158	Single-Molecule Sensors: Challenges and Opportunities for Quantitative Analysis. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11354-66	16.4	163
157	Distinct surveillance pathway for immunopathology during acute infection via autophagy and SR-BI. <i>Scientific Reports</i> , 2016 , 6, 34440	4.9	15
156	Measuring membrane association and protein diffusion within membranes with supercritical angle fluorescence microscopy. <i>Biomedical Optics Express</i> , 2016 , 7, 1561-76	3.5	12
155	Annexin A6 regulates interleukin-2-mediated T-cell proliferation. <i>Immunology and Cell Biology</i> , 2016 , 94, 543-53	5	18
154	Binding of transcription factor GabR to DNA requires recognition of DNA shape at a location distinct from its cognate binding site. <i>Nucleic Acids Research</i> , 2016 , 44, 1411-20	20.1	27
153	Activation of Endothelial Nitric Oxide (eNOS) Occurs through Different Membrane Domains in Endothelial Cells. <i>PLoS ONE</i> , 2016 , 11, e0151556	3.7	19
152	Dextran-Catechin: An anticancer chemically-modified natural compound targeting copper that attenuates neuroblastoma growth. <i>Oncotarget</i> , 2016 , 7, 47479-47493	3.3	30
151	New Insights into How Trafficking Regulates T Cell Receptor Signaling. <i>Frontiers in Cell and Developmental Biology</i> , 2016 , 4, 77	5.7	6
150	Distinct Mechanisms Regulate Lck Spatial Organization in Activated T Cells. <i>Frontiers in Immunology</i> , 2016 , 7, 83	8.4	20
149	Quantifying the dynamics of the oligomeric transcription factor STAT3 by pair correlation of molecular brightness. <i>Nature Communications</i> , 2016 , 7, 11047	17.4	26
148	Prolonged Intake of Dietary Lipids Alters Membrane Structure and T Cell Responses in LDLR ^{-/-} Mice. <i>Journal of Immunology</i> , 2016 , 196, 3993-4002	5.3	14
147	Clus-DoC: a combined cluster detection and colocalization analysis for single-molecule localization microscopy data. <i>Molecular Biology of the Cell</i> , 2016 , 27, 3627-3636	3.5	51
146	The Synthesis of Ketone-Derived Enamides by Elimination of HCN from Cyanoamides. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 4176-4188	3.2	6
145	Einzelmolekül-Sensoren: Herausforderungen und Möglichkeiten für die quantitative Analyse. <i>Angewandte Chemie</i> , 2016 , 128, 11526-11539	3.6	5
144	Discreet and distinct clustering of five model membrane proteins revealed by single molecule localization microscopy. <i>Molecular Membrane Biology</i> , 2015 , 32, 11-8	3.4	7
143	The myelin proteolipid plasmalogen forms oligomers and induces liquid-ordered membranes in the Golgi complex. <i>Journal of Cell Science</i> , 2015 , 128, 2293-302	5.3	11
142	Tracking molecular dynamics without tracking: image correlation of photo-activation microscopy. <i>Methods and Applications in Fluorescence</i> , 2015 , 3, 014006	3.1	11

141	Cryo-electron microscopy and single molecule fluorescent microscopy detect CD4 receptor induced HIV size expansion prior to cell entry. <i>Virology</i> , 2015 , 486, 121-33	3.6	11
140	Ultrasensitive and specific measurement of protease activity using functionalized photonic crystals. <i>Analytical Chemistry</i> , 2015 , 87, 9946-53	7.8	32
139	Do mechanical forces contribute to nanoscale membrane organisation in T cells?. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 822-9	4.9	7
138	Evidence for annexin A6-dependent plasma membrane remodelling of lipid domains. <i>British Journal of Pharmacology</i> , 2015 , 172, 1677-90	8.6	31
137	Enhancing Quantum Dots for Bioimaging using Advanced Surface Chemistry and Advanced Optical Microscopy: Application to Silicon Quantum Dots (SiQDs). <i>Advanced Materials</i> , 2015 , 27, 6144-50	24	48
136	Nanodomains in biological membranes. <i>Essays in Biochemistry</i> , 2015 , 57, 93-107	7.6	18
135	Self-calibrated line-scan STED-FCS to quantify lipid dynamics in model and cell membranes. <i>Biophysical Journal</i> , 2015 , 108, 596-609	2.9	33
134	An RPTP/Src family kinase/Rap1 signaling module recruits myosin IIB to support contractile tension at apical E-cadherin junctions. <i>Molecular Biology of the Cell</i> , 2015 , 26, 1249-62	3.5	32
133	3D super-resolution imaging by localization microscopy. <i>Methods in Molecular Biology</i> , 2015 , 1232, 123-36.4		
132	Insights into adhesion biology using single-molecule localization microscopy. <i>ChemPhysChem</i> , 2014 , 15, 606-18	3.2	8
131	Versatile "click chemistry" approach to functionalizing silicon quantum dots: applications toward fluorescent cellular imaging. <i>Langmuir</i> , 2014 , 30, 5209-16	4	47
130	Galectin-3 drives glycosphingolipid-dependent biogenesis of clathrin-independent carriers. <i>Nature Cell Biology</i> , 2014 , 16, 595-606	23.4	177
129	Molecularly engineered surfaces for cell biology: from static to dynamic surfaces. <i>Langmuir</i> , 2014 , 30, 3290-302	4	31
128	Microscopy approaches to investigate protein dynamics and lipid organization. <i>Molecular Membrane Biology</i> , 2014 , 31, 141-51	3.4	7
127	Efficient synthesis of fused bicyclic ethers and their application in herbicide chemistry. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 4643-4649	2.9	13
126	Method for co-cluster analysis in multichannel single-molecule localisation data. <i>Histochemistry and Cell Biology</i> , 2014 , 141, 605-12	2.4	55
125	Antibody modified porous silicon microparticles for the selective capture of cells. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1282-9	6.3	22
124	Biointerfaces on indium-tin oxide prepared from organophosphonic acid self-assembled monolayers. <i>Langmuir</i> , 2014 , 30, 8509-15	4	12

123	The organisation of the cell membrane: do proteins rule lipids?. <i>Current Opinion in Chemical Biology</i> , 2014 , 20, 54-9	9.7	30
122	Fluctuation-based imaging of nuclear Rac1 activation by protein oligomerisation. <i>Scientific Reports</i> , 2014 , 4, 4219	4.9	18
121	Pharmacological inhibition of dynamin II reduces constitutive protein secretion from primary human macrophages. <i>PLoS ONE</i> , 2014 , 9, e111186	3.7	6
120	Dynamic control of β integrin adhesion by the plexinD1-sema3E axis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 379-84	11.5	53
119	Tropomyosin isoforms support actomyosin biogenesis to generate contractile tension at the epithelial zonula adherens. <i>Cytoskeleton</i> , 2014 , 71, 663-76	2.4	20
118	Endocytic crosstalk: cavins, caveolins, and caveolae regulate clathrin-independent endocytosis. <i>PLoS Biology</i> , 2014 , 12, e1001832	9.7	99
117	Fluorescence spectral correlation spectroscopy (FSCS) for probes with highly overlapping emission spectra. <i>Optics Express</i> , 2014 , 22, 2973-88	3.3	18
116	Conformational states of the kinase Lck regulate clustering in early T cell signaling. <i>Nature Immunology</i> , 2013 , 14, 82-9	19.1	167
115	Quantitative analysis of three-dimensional fluorescence localization microscopy data. <i>Biophysical Journal</i> , 2013 , 105, L05-7	2.9	27
114	Super-resolution imaging by localization microscopy. <i>Methods in Molecular Biology</i> , 2013 , 950, 81-93	1.4	9
113	Single-molecule analysis reveals self assembly and nanoscale segregation of two distinct cavin subcomplexes on caveolae. <i>ELife</i> , 2013 , 3, e01434	8.9	97
112	CD317/tetherin is an organiser of membrane microdomains. <i>Journal of Cell Science</i> , 2013 , 126, 1553-64	5.3	37
111	VAMP7 controls T cell activation by regulating the recruitment and phosphorylation of vesicular Lat at TCR-activation sites. <i>Nature Immunology</i> , 2013 , 14, 723-31	19.1	90
110	Super-resolution microscopy of the immunological synapse. <i>Current Opinion in Immunology</i> , 2013 , 25, 307-12	7.8	36
109	Imaging lipid domains in cell membranes: the advent of super-resolution fluorescence microscopy. <i>Frontiers in Plant Science</i> , 2013 , 4, 503	6.2	54
108	Do signalling endosomes play a role in T cell activation?. <i>FEBS Journal</i> , 2013 , 280, 5164-76	5.7	12
107	Creating adhesive and soluble gradients for imaging cell migration with fluorescence microscopy. <i>Journal of Visualized Experiments</i> , 2013 ,	1.6	5
106	Characterization of a new series of fluorescent probes for imaging membrane order. <i>PLoS ONE</i> , 2013 , 8, e52960	3.7	58

105	Sub-resolution lipid domains exist in the plasma membrane and regulate protein diffusion and distribution. <i>Nature Communications</i> , 2012 , 3, 1256	17.4	178
104	Biofunctionalization of free-standing porous silicon films for self-assembly of photonic devices. <i>Soft Matter</i> , 2012 , 8, 360-366	3.6	23
103	HIV-1 Nef mobilizes lipid rafts in macrophages through a pathway that competes with ABCA1-dependent cholesterol efflux. <i>Journal of Lipid Research</i> , 2012 , 53, 696-708	6.3	53
102	HIV taken by STORM: super-resolution fluorescence microscopy of a viral infection. <i>Virology Journal</i> , 2012 , 9, 84	6.1	40
101	Electrochemical "switching" of Si(100) modular assemblies. <i>Journal of the American Chemical Society</i> , 2012 , 134, 844-7	16.4	43
100	Optical techniques for imaging membrane domains in live cells (live-cell palm of protein clustering). <i>Methods in Enzymology</i> , 2012 , 504, 221-35	1.7	21
99	The MARVEL transmembrane motif of occludin mediates oligomerization and targeting to the basolateral surface in epithelia. <i>Journal of Cell Science</i> , 2012 , 125, 3545-56	5.3	30
98	Using an Electrical Potential to Reversibly Switch Surfaces between Two States for Dynamically Controlling Cell Adhesion. <i>Angewandte Chemie</i> , 2012 , 124, 7826-7830	3.6	20
97	Using an electrical potential to reversibly switch surfaces between two states for dynamically controlling cell adhesion. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7706-10	16.4	110
96	The lipid raft hypothesis revisited--new insights on raft composition and function from super-resolution fluorescence microscopy. <i>BioEssays</i> , 2012 , 34, 739-47	4.1	127
95	Cyclic RGD peptides interfere with binding of the Helicobacter pylori protein CagL to integrins $\alpha 5 \beta 1$ and $\alpha 1 \beta 1$. <i>Amino Acids</i> , 2012 , 43, 219-32	3.5	52
94	The integration of signaling and the spatial organization of the T cell synapse. <i>Frontiers in Immunology</i> , 2012 , 3, 352	8.4	19
93	Fluorescence localization microscopy: The transition from concept to biological research tool. <i>Communicative and Integrative Biology</i> , 2012 , 5, 345-9	1.7	6
92	How does the kinase Lck phosphorylate the T cell receptor? Spatial organization as a regulatory mechanism. <i>Frontiers in Immunology</i> , 2012 , 3, 167	8.4	37
91	The Actin Cytoskeleton and Membrane Organisation in T Lymphocytes 2012 , 103-121		
90	Quantitative imaging of membrane lipid order in cells and organisms. <i>Nature Protocols</i> , 2011 , 7, 24-35	18.8	277
89	Spacing of integrin ligands influences signal transduction in endothelial cells. <i>Biophysical Journal</i> , 2011 , 101, 764-73	2.9	53
88	The structure and luminescence properties of europium(III) triflate doped self-assembled pyromellitimide gels. <i>New Journal of Chemistry</i> , 2011 , 35, 1466	3.6	16

87	Mesoporous silicon photonic crystal microparticles: towards single-cell optical biosensors. <i>Faraday Discussions</i> , 2011 , 149, 301-17; discussion 333-56	3.6	48
86	Different functionalization of the internal and external surfaces in mesoporous materials for biosensing applications using "click" chemistry. <i>Langmuir</i> , 2011 , 27, 328-34	4	50
85	Pre-existing clusters of the adaptor Lat do not participate in early T cell signaling events. <i>Nature Immunology</i> , 2011 , 12, 655-62	19.1	261
84	The relative importance of topography and RGD ligand density for endothelial cell adhesion. <i>PLoS ONE</i> , 2011 , 6, e21869	3.7	80
83	Caveolin-1-mediated apolipoprotein A-I membrane binding sites are not required for cholesterol efflux. <i>PLoS ONE</i> , 2011 , 6, e23353	3.7	13
82	Phagocytosis of IgG-coated polystyrene beads by macrophages induces and requires high membrane order. <i>Traffic</i> , 2011 , 12, 1730-43	5.7	26
81	Annexin A6 is an organizer of membrane microdomains to regulate receptor localization and signalling. <i>IUBMB Life</i> , 2011 , 63, 1009-17	4.7	44
80	The Reorientation of T-Cell Polarity and Inhibition of Immunological Synapse Formation by CD46 Involves Its Recruitment to Lipid Rafts. <i>Journal of Lipids</i> , 2011 , 2011, 521863	2.7	13
79	Dynamic organization of lymphocyte plasma membrane: lessons from advanced imaging methods. <i>Immunology</i> , 2010 , 131, 1-8	7.8	16
78	How do cells make decisions: engineering micro- and nanoenvironments for cell migration. <i>Journal of Oncology</i> , 2010 , 2010, 363106	4.5	11
77	Band Crystallins modulate the head group order of human lens membranes during aging 2010 , 51, 5162-7		18
76	Imaging membrane lipid order in whole, living vertebrate organisms. <i>Biophysical Journal</i> , 2010 , 99, L7-9	2.9	34
75	Substrate independent assembly of optical structures guided by biomolecular interactions. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3270-5	9.5	6
74	Actin dynamics drive membrane reorganization and scission in clathrin-independent endocytosis. <i>Cell</i> , 2010 , 140, 540-53	56.2	193
73	Expression and stability of two isoforms of ABCG1 in human vascular cells. <i>Atherosclerosis</i> , 2010 , 208, 75-82	3.1	26
72	Optimized time-gated generalized polarization imaging of Laurdan and di-4-ANEPPDHQ for membrane order image contrast enhancement. <i>Microscopy Research and Technique</i> , 2010 , 73, 618-22	2.8	16
71	PALM imaging and cluster analysis of protein heterogeneity at the cell surface. <i>Journal of Biophotonics</i> , 2010 , 3, 446-54	3.1	204
70	VCD studies on cyclic peptides assembled from L-amino acids and a trans-2-aminocyclopentane- or trans-2-aminocyclohexane carboxylic acid. <i>Journal of Peptide Science</i> , 2010 , 16, 613-20	2.1	10

69	The platelet glycoprotein Ib-IX-V complex anchors lipid rafts to the membrane skeleton: implications for activation-dependent cytoskeletal translocation of signaling molecules. <i>Journal of Thrombosis and Haemostasis</i> , 2010 , 8, 163-72	15.4	20
68	Cyclosporin A decreases apolipoprotein E secretion from human macrophages via a protein phosphatase 2B-dependent and ATP-binding cassette transporter A1 (ABCA1)-independent pathway. <i>Journal of Biological Chemistry</i> , 2009 , 284, 24144-54	5.4	21
67	Synthesis of chemically modified bioactive peptides: recent advances, challenges and developments for medicinal chemistry. <i>Future Medicinal Chemistry</i> , 2009 , 1, 1289-310	4.1	56
66	Clustering and lateral concentration of raft lipids by the MAL protein. <i>Molecular Biology of the Cell</i> , 2009 , 20, 3751-62	3.5	51
65	Caveolin-1-dependent and -independent membrane domains. <i>Journal of Lipid Research</i> , 2009 , 50, 1609-20.3		21
64	Single-molecule experiments to elucidate the minimal requirement for DNA recognition by transcription factor epitopes. <i>Small</i> , 2009 , 5, 484-95	11	15
63	Accumulation of raft lipids in T-cell plasma membrane domains engaged in TCR signalling. <i>EMBO Journal</i> , 2009 , 28, 466-76	13	212
62	Quantitative microscopy: protein dynamics and membrane organisation. <i>Traffic</i> , 2009 , 10, 962-71	5.7	115
61	Smart tissue culture: in situ monitoring of the activity of protease enzymes secreted from live cells using nanostructured photonic crystals. <i>Nano Letters</i> , 2009 , 9, 2021-5	11.5	83
60	Electrochemical behavior of gold colloidal alkyl modified silicon surfaces. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2477-83	9.5	31
59	Silicon-based mesoporous photonic crystals: towards single cell optical biosensors 2009 ,		2
58	Triton X-100 promotes a cholesterol-dependent condensation of the plasma membrane. <i>Biochemical Journal</i> , 2009 , 420, 373-81	3.8	22
57	Flotillins are involved in the polarization of primitive and mature hematopoietic cells. <i>PLoS ONE</i> , 2009 , 4, e8290	3.7	32
56	Role of lipid rafts in agrin-elicited acetylcholine receptor clustering. <i>Chemico-Biological Interactions</i> , 2008 , 175, 64-7	5	26
55	Membrane Domains as Signaling Centers in Macrophages and T-Cells: From Concepts to Experiments. <i>Immunology, Endocrine and Metabolic Agents in Medicinal Chemistry</i> , 2008 , 8, 336-348		1
54	Organic modification of mesoporous silicon rugate filters: the influence of nanoarchitecture on optical behaviour. <i>International Journal of Nanotechnology</i> , 2008 , 5, 170	1.5	8
53	Functional implications of plasma membrane condensation for T cell activation. <i>PLoS ONE</i> , 2008 , 3, e22637		85
52	LILRA5 is expressed by synovial tissue macrophages in rheumatoid arthritis, selectively induces pro-inflammatory cytokines and IL-10 and is regulated by TNF-alpha, IL-10 and IFN-gamma. <i>European Journal of Immunology</i> , 2008 , 38, 3459-73	6.1	32

51	Introducing distinctly different chemical functionalities onto the internal and external surfaces of mesoporous materials. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2697-9	16.4	55
50	Modifying Porous Silicon with Self-Assembled Monolayers for Biomedical Applications: The Influence of Surface Coverage on Stability and Biomolecule Coupling. <i>Advanced Functional Materials</i> , 2008 , 18, 3827-3833	15.6	57
49	Introducing Distinctly Different Chemical Functionalities onto the Internal and External Surfaces of Mesoporous Materials. <i>Angewandte Chemie</i> , 2008 , 120, 2737-2739	3.6	10
48	The constrained amino acid beta-Acc confers potency and selectivity to integrin ligands. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3976-8	16.4	65
47	Forming Antifouling Organic Multilayers on Porous Silicon Rugate Filters Towards In Vivo/Ex Vivo Biophotonic Devices. <i>Advanced Functional Materials</i> , 2007 , 17, 2884-2890	15.6	65
46	Plasma membrane segregation during T cell activation: probing the order of domains. <i>Current Opinion in Immunology</i> , 2007 , 19, 470-5	7.8	62
45	Shiga toxin induces tubular membrane invaginations for its uptake into cells. <i>Nature</i> , 2007 , 450, 670-5	50.4	443
44	Annexin A6-induced alterations in cholesterol transport and caveolin export from the Golgi complex. <i>Traffic</i> , 2007 , 8, 1568-89	5.7	80
43	Si-C linked oligo(ethylene glycol) layers in silicon-based photonic crystals: optimization for implantable optical materials. <i>Biomaterials</i> , 2007 , 28, 3055-62	15.6	78
42	Porous silicon based narrow line-width rugate filters. <i>Optical Materials</i> , 2007 , 29, 619-622	3.3	94
41	Secretion of apolipoprotein E from macrophages occurs via a protein kinase A and calcium-dependent pathway along the microtubule network. <i>Circulation Research</i> , 2007 , 101, 607-16	15.7	27
40	Peptide-modified optical filters for detecting protease activity. <i>ACS Nano</i> , 2007 , 1, 355-61	16.7	107
39	Hybrid lipid bilayers in nanostructured silicon: a biomimetic mesoporous scaffold for optical detection of cholera toxin. <i>Chemical Communications</i> , 2007 , 1936-8	5.8	38
38	Classification of lactic acid bacteria with UV-resonance Raman spectroscopy. <i>Biopolymers</i> , 2006 , 82, 286-90		79
37	Integrin-mediated adhesion regulates membrane order. <i>Journal of Cell Biology</i> , 2006 , 174, 725-34	7.3	217
36	Plasma membrane polarization during mating in yeast cells. <i>Journal of Cell Biology</i> , 2006 , 173, 861-6	7.3	58
35	Agrin elicits membrane lipid condensation at sites of acetylcholine receptor clusters in C2C12 myotubes. <i>Journal of Lipid Research</i> , 2006 , 47, 2121-33	6.3	48
34	FAPP2, cilium formation, and compartmentalization of the apical membrane in polarized Madin-Darby canine kidney (MDCK) cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18556-61	11.5	174

33	Optimisation of Nanostructured Porous Silicon Surface Chemistry Towards Biophotonic Sensors 2006 ,		3
32	Single-step DNA immobilization on antifouling self-assembled monolayers covalently bound to silicon (111). <i>Langmuir</i> , 2006 , 22, 3494-6	4	66
31	Visualizing membrane microdomains by Laurdan 2-photon microscopy. <i>Molecular Membrane Biology</i> , 2006 , 23, 41-8	3-4	140
30	Roles of ATP binding cassette transporters A1 and G1, scavenger receptor BI and membrane lipid domains in cholesterol export from macrophages. <i>Current Opinion in Lipidology</i> , 2006 , 17, 247-57	4-4	203
29	Probing DNA-peptide interaction forces at the single-molecule level. <i>Journal of Peptide Science</i> , 2006 , 12, 836-42	2-1	16
28	Identification and characterization of associated with lipid droplet protein 1: A novel membrane-associated protein that resides on hepatic lipid droplets. <i>Traffic</i> , 2006 , 7, 1254-69	5-7	154
27	Myelin basic protein-dependent plasma membrane reorganization in the formation of myelin. <i>EMBO Journal</i> , 2006 , 25, 5037-48	13	88
26	Formation of tetra(ethylene oxide) terminated Si-C linked monolayers and their derivatization with glycine: an example of a generic strategy for the immobilization of biomolecules on silicon. <i>Langmuir</i> , 2005 , 21, 10522-9	4	65
25	Evidence for Why Tri(ethylene oxide) Functionalized Si-C Linked Monolayers on Si(111) Have Inferior Protein Antifouling Properties Relative to the Equivalent Alkanethiol Monolayers Assembled on Gold. <i>Australian Journal of Chemistry</i> , 2005 , 58, 660	1-2	17
24	Domain-specific lipid distribution in macrophage plasma membranes. <i>Journal of Lipid Research</i> , 2005 , 46, 1526-38	6-3	86
23	Condensation of the plasma membrane at the site of T lymphocyte activation. <i>Journal of Cell Biology</i> , 2005 , 171, 121-31	7-3	202
22	S100A8 and S100A9 in human arterial wall. Implications for atherogenesis. <i>Journal of Biological Chemistry</i> , 2005 , 280, 41521-9	5-4	140
21	Apolipoprotein A-1 interaction with plasma membrane lipid rafts controls cholesterol export from macrophages. <i>FASEB Journal</i> , 2004 , 18, 574-6	0-9	89
20	The raft-promoting property of virion-associated cholesterol, but not the presence of virion-associated Brij 98 rafts, is a determinant of human immunodeficiency virus type 1 infectivity. <i>Journal of Virology</i> , 2004 , 78, 10556-65	6-6	53
19	Apolipoprotein A-I-stimulated apolipoprotein E secretion from human macrophages is independent of cholesterol efflux. <i>Journal of Biological Chemistry</i> , 2004 , 279, 25966-77	5-4	39
18	... yet even flawed films raise interest in research. <i>Nature</i> , 2004 , 431, 244	50-4	4
17	Short peptide receptor mimics for atherosclerosis risk assessment of LDL. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 151-64	11-8	4
16	Visualizing lipid structure and raft domains in living cells with two-photon microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 15554-9	11-5	443

15	Cyclodextrins differentially mobilize free and esterified cholesterol from primary human foam cell macrophages. <i>Journal of Lipid Research</i> , 2003 , 44, 1156-66	6.3	25
14	Oxidized lipoproteins and macrophages. <i>Vascular Pharmacology</i> , 2002 , 38, 239-48	5.9	28
13	Low density lipoprotein interaction with amino acid-modified self assembled monolayers on surface plasmon resonance surfaces. <i>Analytica Chimica Acta</i> , 2002 , 470, 3-17	6.6	13
12	A kinetic model to evaluate cholesterol efflux from THP-1 macrophages to apolipoprotein A-1. <i>Biochemistry</i> , 2001 , 40, 9363-73	3.2	33
11	Assessment of the fifth ligand-binding repeat (LR5) of the LDL receptor as an analytical reagent for LDL binding. <i>Analyst, The</i> , 2001 , 126, 329-36	5	7
10	Inhibition of cholesterol efflux by 7-ketocholesterol: comparison between cells, plasma membrane vesicles, and liposomes as cholesterol donors. <i>Biochemistry</i> , 2001 , 40, 13002-14	3.2	39
9	A peptide library on an SPR chip as an analytical tool at the heart of the matter. <i>Biochemical Society Transactions</i> , 2000 , 28, A21-A21	5.1	
8	Surface Plasmon Resonance Measurement of the Binding of Low-Density Lipoprotein at a Heparin Surface. <i>Journal of Colloid and Interface Science</i> , 1999 , 217, 111-118	9.3	21
7	Detection of oxidized low-density lipoproteins using surface plasmon resonance. <i>Analytical Chemistry</i> , 1999 , 71, 2459-67	7.8	11
6	Surface plasmon resonance sensor for heparin measurements in blood plasma. <i>Biosensors and Bioelectronics</i> , 1998 , 13, 1307-15	11.8	57
5	Evaluation of Surface Plasmon Resonance (SPR) for Heparin Assay. <i>Journal of Colloid and Interface Science</i> , 1997 , 194, 364-72	9.3	17
4	Evaluation of Surface Plasmon Resonance (SPR) for Heparin Assay. <i>Journal of Colloid and Interface Science</i> , 1997 , 194, 373-8	9.3	12
3	Regulated unbinding of ZAP70 at the T cell receptor by kinetic avidity		4
2	Clustering of CD3 ζ s sufficient to initiate T cell receptor signaling		1
1	Precise, high-throughput production of multicellular spheroids with a bespoke 3D bioprinter		2