Katharina Gaus

List of Publications by Year
in descending order

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236 papers	12,902 citations	22099 59 h-index	31759 101 g-index
250 all docs	250 docs citations	250 times ranked	16857 citing authors

#	Article	IF	Citations
1	Shiga toxin induces tubular membrane invaginations for its uptake into cells. Nature, 2007, 450, 670-675.	13.7	538
2	Visualizing lipid structure and raft domains in living cells with two-photon microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15554-15559.	3.3	486
3	Quantitative imaging of membrane lipid order in cells and organisms. Nature Protocols, 2012, 7, 24-35.	5.5	364
4	Pre-existing clusters of the adaptor Lat do not participate in early T cell signaling events. Nature Immunology, 2011, 12, 655-662.	7.0	302
5	Pair correlation microscopy reveals the role of nanoparticle shape in intracellular transport and site of drug release. Nature Nanotechnology, 2017, 12, 81-89.	15.6	295
6	Accumulation of raft lipids in T-cell plasma membrane domains engaged in TCR signalling. EMBO Journal, 2009, 28, 466-476.	3.5	252
7	PALM imaging and cluster analysis of protein heterogeneity at the cell surface. Journal of Biophotonics, 2010, 3, 446-454.	1.1	248
8	Galectin-3 drives glycosphingolipid-dependent biogenesis of clathrin-independent carriers. Nature Cell Biology, 2014, 16, 592-603.	4.6	248
9	Integrin-mediated adhesion regulates membrane order. Journal of Cell Biology, 2006, 174, 725-734.	2.3	246
10	Singleâ€Molecule Sensors: Challenges and Opportunities for Quantitative Analysis. Angewandte Chemie - International Edition, 2016, 55, 11354-11366.	7.2	233
11	Condensation of the plasma membrane at the site of T lymphocyte activation. Journal of Cell Biology, 2005, 171, 121-131.	2.3	228
12	Actin Dynamics Drive Membrane Reorganization and Scission in Clathrin-Independent Endocytosis. Cell, 2010, 140, 540-553.	13.5	226
13	Roles of ATP binding cassette transporters A1 and G1, scavenger receptor BI and membrane lipid domains in cholesterol export from macrophages. Current Opinion in Lipidology, 2006, 17, 247-257.	1.2	224
14	Sub-resolution lipid domains exist in the plasma membrane and regulate protein diffusion and distribution. Nature Communications, 2012, 3, 1256.	5.8	223
15	Conformational states of the kinase Lck regulate clustering in early T cell signaling. Nature Immunology, 2013, 14, 82-89.	7.0	206
16	Functional role of T-cell receptor nanoclusters in signal initiation and antigen discrimination. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5454-63.	3.3	194
17	FAPP2, cilium formation, and compartmentalization of the apical membrane in polarized Madin-Darby canine kidney (MDCK) cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18556-18561.	3.3	188
18	Identification and Characterization of Associated with Lipid Droplet Protein 1: A Novel Membrane-Associated Protein That Resides on Hepatic Lipid Droplets. Traffic, 2006, 7, 1254-1269.	1.3	179

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19	S100A8 and S100A9 in Human Arterial Wall. Journal of Biological Chemistry, 2005, 280, 41521-41529.	1.6	158
20	Visualizing membrane microdomains by Laurdan 2-photon microscopy (Review). Molecular Membrane Biology, 2006, 23, 41-48.	2.0	151
21	The lipid raft hypothesis revisited â€“ New insights on raft composition and function from superâ€resolution fluorescence microscopy. BioEssays, 2012, 34, 739-747.	1.2	150
22	Turning single-molecule localization microscopy into a quantitative bioanalytical tool. Nature Protocols, 2017, 12, 453-460.	5.5	149
23	Quantitative Microscopy: Protein Dynamics and Membrane Organisation. Traffic, 2009, 10, 962-971.	1.3	132
24	Endocytic Crosstalk: Cavins, Caveolins, and Caveolae Regulate Clathrin-Independent Endocytosis. PLoS Biology, 2014, 12, e1001832.	2.6	128
25	VAMP7 controls T cell activation by regulating the recruitment and phosphorylation of vesicular Lat at TCR-activation sites. Nature Immunology, 2013, 14, 723-731.	7.0	118
26	Using an Electrical Potential to Reversibly Switch Surfaces between Two States for Dynamically Controlling Cell Adhesion. Angewandte Chemie - International Edition, 2012, 51, 7706-7710.	7.2	117
27	Peptide-Modified Optical Filters for Detecting Protease Activity. ACS Nano, 2007, 1, 355-361.	7.3	114
28	Single-molecule analysis reveals self assembly and nanoscale segregation of two distinct cavin subcomplexes on caveolae. ELife, 2013, 3, e01434.	2.8	114
29	Nanopore blockade sensors for ultrasensitive detection of proteins in complex biological samples. Nature Communications, 2019, 10, 2109.	5.8	114
30	Porous silicon based narrow line-width rugate filters. Optical Materials, 2007, 29, 619-622.	1.7	108
31	Introducing Membrane Charge and Membrane Potential to T Cell Signaling. Frontiers in Immunology, 2017, 8, 1513.	2.2	106
32	Unveiling the Relationship between the Perovskite Precursor Solution and the Resulting Device Performance. Journal of the American Chemical Society, 2020, 142, 6251-6260.	6.6	103
33	Telomere Loop Dynamics in Chromosome End Protection. Molecular Cell, 2018, 71, 510-525.e6.	4.5	102
34	Myelin basic protein-dependent plasma membrane reorganization in the formation of myelin. EMBO Journal, 2006, 25, 5037-5048.	3.5	99
35	Clus-DoC: a combined cluster detection and colocalization analysis for single-molecule localization microscopy data. Molecular Biology of the Cell, 2016, 27, 3627-3636.	0.9	99
36	High F-Content Perfluoropolyether-Based Nanoparticles for Targeted Detection of Breast Cancer by ¹⁹F Magnetic Resonance and Optical Imaging. ACS Nano, 2018, 12, 9162-9176.	7.3	98

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37	The impact of nanoparticle shape on cellular internalisation and transport: what do the different analysis methods tell us?. Materials Horizons, 2019, 6, 1538-1547.	6.4	97
38	Domain-specific lipid distribution in macrophage plasma membranes. Journal of Lipid Research, 2005, 46, 1526-1538.	2.0	96
39	Functional Implications of Plasma Membrane Condensation for T Cell Activation. PLoS ONE, 2008, 3, e2262.	1.1	96
40	Apolipoprotein Aâ€1 interaction with plasma membrane lipid rafts controls cholesterol export from macrophages. FASEB Journal, 2004, 18, 574-576.	0.2	95
41	Classification of lactic acid bacteria with UV-resonance Raman spectroscopy. Biopolymers, 2006, 82, 286-290.	1.2	95
42	Annexin A6â€Induced Alterations in Cholesterol Transport and Caveolin Export from the Golgi Complex. Traffic, 2007, 8, 1568-1589.	1.3	95
43	Smart Tissue Culture: in Situ Monitoring of the Activity of Protease Enzymes Secreted from Live Cells Using Nanostructured Photonic Crystals. Nano Letters, 2009, 9, 2021-2025.	4.5	91
44	The Relative Importance of Topography and RGD Ligand Density for Endothelial Cell Adhesion. PLoS ONE, 2011, 6, e21869.	1.1	90
45	Siâ€“C linked oligo(ethylene glycol) layers in silicon-based photonic crystals: Optimization for implantable optical materials. Biomaterials, 2007, 28, 3055-3062.	5.7	80
46	Single-Step DNA Immobilization on Antifouling Self-Assembled Monolayers Covalently Bound to Silicon (111). Langmuir, 2006, 22, 3494-3496.	1.6	73
47	Method for co-cluster analysis in multichannel single-molecule localisation data. Histochemistry and Cell Biology, 2014, 141, 605-612.	0.8	71
48	The Constrained Amino Acid Î²-Acc Confers Potency and Selectivity to Integrin Ligands. Angewandte Chemie - International Edition, 2007, 46, 3976-3978.	7.2	70
49	Forming Antifouling Organic Multilayers on Porous Silicon Rugate Filters Towards In Vivo/Ex Vivo Biophotonic Devices. Advanced Functional Materials, 2007, 17, 2884-2890.	7.8	69
50	HIV-1 Nef mobilizes lipid rafts in macrophages through a pathway that competes with ABCA1-dependent cholesterol efflux. Journal of Lipid Research, 2012, 53, 696-708.	2.0	69
51	Dynamic control of Î²1 integrin adhesion by the plexinD1-sema3E axis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 379-384.	3.3	69
52	A photoelectrochemical platform for the capture and release of rare single cells. Nature Communications, 2018, 9, 2288.	5.8	68
53	Formation of Tetra(ethylene oxide) Terminated Siâ€“C Linked Monolayers and Their Derivatization with Glycine:Â An Example of a Generic Strategy for the Immobilization of Biomolecules on Silicon. Langmuir, 2005, 21, 10522-10529.	1.6	67
54	Plasma membrane segregation during T cell activation: probing the order of domains. Current Opinion in Immunology, 2007, 19, 470-475.	2.4	67

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55	Plasma membrane polarization during mating in yeast cells. Journal of Cell Biology, 2006, 173, 861-866.	2.3	65
56	How does the kinase Lck phosphorylate the T cell receptor? Spatial organization as a regulatory mechanism. Frontiers in Immunology, 2012, 3, 167.	2.2	65
57	Characterization of a New Series of Fluorescent Probes for Imaging Membrane Order. PLoS ONE, 2013, 8, e52960.	1.1	65
58	Synthesis of chemically modified bioactive peptides: recent advances, challenges and developments for medicinal chemistry. Future Medicinal Chemistry, 2009, 1, 1289-1310.	1.1	64
59	Introducing Distinctly Different Chemical Functionalities onto the Internal and External Surfaces of Mesoporous Materials. Angewandte Chemie - International Edition, 2008, 47, 2697-2699.	7.2	61
60	Imaging lipid domains in cell membranes: the advent of super-resolution fluorescence microscopy. Frontiers in Plant Science, 2013, 4, 503.	1.7	61
61	Surface plasmon resonance sensor for heparin measurements in blood plasma. Biosensors and Bioelectronics, 1998, 13, 1307-1315.	5.3	60
62	Spacing of Integrin Ligands Influences Signal Transduction in Endothelial Cells. Biophysical Journal, 2011, 101, 764-773.	0.2	60
63	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. Journal of Virology, 2004, 78, 10556-10565.	1.5	59
64	Modifying Porous Silicon with Self-Assembled Monolayers for Biomedical Applications: The Influence of Surface Coverage on Stability and Biomolecule Coupling. Advanced Functional Materials, 2008, 18, 3827-3833.	7.8	59
65	Annexin A6 is an organizer of membrane microdomains to regulate receptor localization and signalling. IUBMB Life, 2011, 63, 1009-1017.	1.5	58
66	DNA-Based Super-Resolution Microscopy: DNA-PAINT. Genes, 2018, 9, 621.	1.0	58
67	Enhancing Quantum Dots for Bioimaging using Advanced Surface Chemistry and Advanced Optical Microscopy: Application to Silicon Quantum Dots (SiQDs). Advanced Materials, 2015, 27, 6144-6150.	11.1	57
68	A mobile endocytic network connects clathrin-independent receptor endocytosis to recycling and promotes T cell activation. Nature Communications, 2018, 9, 1597.	5.8	56
69	Clustering and Lateral Concentration of Raft Lipids by the MAL Protein. Molecular Biology of the Cell, 2009, 20, 3751-3762.	0.9	55
70	Rod-shaped mesoporous silica nanoparticles for nanomedicine: recent progress and perspectives. Expert Opinion on Drug Delivery, 2018, 15, 881-892.	2.4	55
71	Different Functionalization of the Internal and External Surfaces in Mesoporous Materials for Biosensing Applications Using â€œClickâ€•Chemistry. Langmuir, 2011, 27, 328-334.	1.6	54
72	Cyclic RGD peptides interfere with binding of the Helicobacter pylori protein CagL to integrins Î±VÎ²3 and Î±5Î²1. Amino Acids, 2012, 43, 219-232.	1.2	54

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73	Versatile â€œClick Chemistryâ€•Approach to Functionalizing Silicon Quantum Dots: Applications toward Fluorescent Cellular Imaging. Langmuir, 2014, 30, 5209-5216.	1.6	54
74	Time-Resolved Laurdan Fluorescence Reveals Insights into Membrane Viscosity and Hydration Levels. Biophysical Journal, 2018, 115, 1498-1508.	0.2	54
75	Phasor histone FLIM-FRET microscopy quantifies spatiotemporal rearrangement of chromatin architecture during the DNA damage response. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7323-7332.	3.3	54
76	An intermolecular FRET sensor detects the dynamics of T cell receptor clustering. Nature Communications, 2017, 8, 15100.	5.8	53
77	Canonical T cell receptor docking on peptideâ€“MHC is essential for T cell signaling. Science, 2021, 372, .	6.0	53
78	Mesoporous silicon photonic crystal microparticles: towards single-cell optical biosensors. Faraday Discussions, 2011, 149, 301-317.	1.6	52
79	A FRET sensor enables quantitative measurements of membrane charges in live cells. Nature Biotechnology, 2017, 35, 363-370.	9.4	52
80	A 3D Bioprinter Specifically Designed for the High-Throughput Production of Matrix-Embedded Multicellular Spheroids. IScience, 2020, 23, 101621.	1.9	50
81	Agrin elicits membrane lipid condensation at sites of acetylcholine receptor clusters in C2C12 myotubes. Journal of Lipid Research, 2006, 47, 2121-2133.	2.0	49
82	Ultraprecise single-molecule localization microscopy enables in situ distance measurements in intact cells. Science Advances, 2020, 6, eaay8271.	4.7	49
83	Electrochemical â€œSwitchingâ€•of Si(100) Modular Assemblies. Journal of the American Chemical Society, 2012, 134, 844-847.	6.6	47
84	HIV taken by STORM: Super-resolution fluorescence microscopy of a viral infection. Virology Journal, 2012, 9, 84.	1.4	45
85	Mechanisms of protein nanoscale clustering. Current Opinion in Cell Biology, 2017, 44, 86-92.	2.6	45
86	Super-resolution microscopy of the immunological synapse. Current Opinion in Immunology, 2013, 25, 307-312.	2.4	43
87	How does T cell receptor clustering impact on signal transduction?. Journal of Cell Science, 2019, 132, .	1.2	43
88	Inhibition of Cholesterol Efflux by 7-Ketocholesterol:Â Comparison between Cells, Plasma Membrane Vesicles, and Liposomes as Cholesterol Donorsâ€. Biochemistry, 2001, 40, 13002-13014.	1.2	42
89	Flotillins Are Involved in the Polarization of Primitive and Mature Hematopoietic Cells. PLoS ONE, 2009, 4, e8290.	1.1	42
90	Hybrid lipid bilayers in nanostructured silicon: a biomimetic mesoporous scaffold for optical detection of cholera toxin. Chemical Communications, 2007, , 1936-1938.	2.2	41

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91	A rapid readout for many single plasmonic nanoparticles using dark-field microscopy and digital color analysis. Biosensors and Bioelectronics, 2018, 117, 530-536.	5.3	41
92	Apolipoprotein A-I-stimulated Apolipoprotein E Secretion from Human Macrophages Is Independent of Cholesterol Efflux. Journal of Biological Chemistry, 2004, 279, 25966-25977.	1.6	40
93	CD317/Tetherin is an organiser of membrane microdomains. Journal of Cell Science, 2013, 126, 1553-64.	1.2	40
94	The organisation of the cell membrane: do proteins rule lipids?. Current Opinion in Chemical Biology, 2014, 20, 54-59.	2.8	40
95	Single-molecule detection on a portable 3D-printed microscope. Nature Communications, 2019, 10, 5662.	5.8	40
96	Dextran-Catechin: An anticancer chemically-modified natural compound targeting copper that attenuates neuroblastoma growth. Oncotarget, 2016, 7, 47479-47493.	0.8	40
97	Imaging Membrane Lipid Order in Whole, Living Vertebrate Organisms. Biophysical Journal, 2010, 99, L7-L9.	0.2	39
98	Self-Calibrated Line-Scan STED-FCS to Quantify Lipid Dynamics in Model and Cell Membranes. Biophysical Journal, 2015, 108, 596-609.	0.2	39
99	An RPTPÎ±/Src family kinase/Rap1 signaling module recruits myosin IIB to support contractile tension at apical E-cadherin junctions. Molecular Biology of the Cell, 2015, 26, 1249-1262.	0.9	39
100	LILRA5 is expressed by synovial tissue macrophages in rheumatoid arthritis, selectively induces proâ€inflammatory cytokines and ILâ€10 and is regulated by TNFâ€Îı, ILâ€10 and IFNâ€Î³. European Journal of Immunology, 2008, 38, 3459-3473.	1.6	38
101	Evidence for annexin <scp>A</scp>6â€dependent plasma membrane remodelling of lipid domains. British Journal of Pharmacology, 2015, 172, 1677-1690.	2.7	38
102	A Kinetic Model to Evaluate Cholesterol Efflux from THP-1 Macrophages to Apolipoprotein A-1. Biochemistry, 2001, 40, 9363-9373.	1.2	37
103	The MARVEL transmembrane motif of occludin mediates oligomerization and targeting to the basolateral surface in epithelia. Journal of Cell Science, 2012, 125, 3545-3556.	1.2	37
104	Secretion of Apolipoprotein E From Macrophages Occurs via a Protein Kinase Aâ€“ and Calcium-Dependent Pathway Along the Microtubule Network. Circulation Research, 2007, 101, 607-616.	2.0	36
105	Phagocytosis of IgGâ€Coated Polystyrene Beads by Macrophages Induces and Requires High Membrane Order. Traffic, 2011, 12, 1730-1743.	1.3	35
106	Ultrasensitive and Specific Measurement of Protease Activity Using Functionalized Photonic Crystals. Analytical Chemistry, 2015, 87, 9946-9953.	3.2	35
107	Binding of transcription factor GabR to DNA requires recognition of DNA shape at a location distinct from its cognate binding site. Nucleic Acids Research, 2016, 44, 1411-1420.	6.5	35
108	Electrochemical Behavior of Gold Colloidal Alkyl Modified Silicon Surfaces. ACS Applied Materials & Interfaces, 2009, 1, 2477-2483.	4.0	33

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109	Molecularly Engineered Surfaces for Cell Biology: From Static to Dynamic Surfaces. Langmuir, 2014, 30, 3290-3302.	1.6	33
110	NicoLaseâ€"An open-source diode laser combiner, fiber launch, and sequencing controller for fluorescence microscopy. PLoS ONE, 2017, 12, e0173879.	1.1	33
111	Oxidized lipoproteins and macrophages. Vascular Pharmacology, 2002, 38, 239-248.	1.0	32
112	Galectin-3 modulation of T-cell activation: mechanisms of membrane remodelling. Progress in Lipid Research, 2019, 76, 101010.	5.3	32
113	Role of lipid rafts in agrin-elicited acetylcholine receptor clustering. Chemico-Biological Interactions, 2008, 175, 64-67.	1.7	31
114	Quantitative Analysis of Three-Dimensional Fluorescence Localization Microscopy Data. Biophysical Journal, 2013, 105, L05-L07.	0.2	31
115	Tuning of the Aggregation Behavior of Fluorinated Polymeric Nanoparticles for Improved Therapeutic Efficacy. ACS Nano, 2020, 14, 7425-7434.	7.3	31
116	Cyclodextrins differentially mobilize free and esterified cholesterol from primary human foam cell macrophages. Journal of Lipid Research, 2003, 44, 1156-1166.	2.0	30
117	The platelet glycoprotein Ibâ€IXâ€V complex anchors lipid rafts to the membrane skeleton: implications for activationâ€dependent cytoskeletal translocation of signaling molecules. Journal of Thrombosis and Haemostasis, 2010, 8, 163-172.	1.9	29
118	Expression and stability of two isoforms of ABCG1 in human vascular cells. Atherosclerosis, 2010, 208, 75-82.	0.4	29
119	Quantifying the dynamics of the oligomeric transcription factor STAT3 by pair correlation of molecular brightness. Nature Communications, 2016, 7, 11047.	5.8	28
120	Towards single molecule biosensors using super-resolution fluorescence microscopy. Biosensors and Bioelectronics, 2017, 93, 1-8.	5.3	27
121	Annexin A6 regulates interleukinâ€2â€mediated Tâ€cell proliferation. Immunology and Cell Biology, 2016, 94, 543-553.	1.0	26
122	Simultaneous impedance spectroscopy and fluorescence microscopy for the real-time monitoring of the response of cells to drugs. Chemical Science, 2017, 8, 1831-1840.	3.7	26
123	Optical Techniques for Imaging Membrane Domains in Live Cells (Live-Cell Palm of Protein Clustering). Methods in Enzymology, 2012, 504, 221-235.	0.4	25
124	Tropomyosin isoforms support actomyosin biogenesis to generate contractile tension at the epithelial zonula adherens. Cytoskeleton, 2014, 71, 663-676.	1.0	25
125	Activation of Endothelial Nitric Oxide (eNOS) Occurs through Different Membrane Domains in Endothelial Cells. PLoS ONE, 2016, 11, e0151556.	1.1	25
126	Caveolin-1-dependent and -independent membrane domains. Journal of Lipid Research, 2009, 50, 1609-1620.	2.0	24

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127	Triton X-100 promotes a cholesterol-dependent condensation of the plasma membrane. Biochemical Journal, 2009, 420, 373-381.	1.7	24
128	Antibody Modified Porous Silicon Microparticles for the Selective Capture of Cells. Bioconjugate Chemistry, 2014, 25, 1282-1289.	1.8	24
129	Distinct Mechanisms Regulate Lck Spatial Organization in Activated T Cells. Frontiers in Immunology, 2016, 7, 83.	2.2	24
130	Surface Plasmon Resonance Measurement of the Binding of Low-Density Lipoprotein at a Heparin Surface. Journal of Colloid and Interface Science, 1999, 217, 111-118.	5.0	23
131	Cyclosporin A Decreases Apolipoprotein E Secretion from Human Macrophages via a Protein Phosphatase 2B-dependent and ATP-binding Cassette Transporter A1 (ABCA1)-independent Pathway. Journal of Biological Chemistry, 2009, 284, 24144-24154.	1.6	23
132	Optimized timeâ€gated generalized polarization imaging of Laurdan and diâ€4â€ANEPPDHQ for membrane order image contrast enhancement. Microscopy Research and Technique, 2010, 73, 618-622.	1.2	23
133	The integration of signaling and the spatial organization of the T cell synapse. Frontiers in Immunology, 2012, 3, 352.	2.2	23
134	Biofunctionalization of free-standing porous silicon films for self-assembly of photonic devices. Soft Matter, 2012, 8, 360-366.	1.2	23
135	Fluctuation-based imaging of nuclear Rac1 activation by protein oligomerisation. Scientific Reports, 2014, 4, 4219.	1.6	23
136	Î±- and Î²-Crystallins Modulate the Head Group Order of Human Lens Membranes during Aging. , 2010, 51, 5162.		22
137	Fluorescence spectral correlation spectroscopy (FSCS) for probes with highly overlapping emission spectra. Optics Express, 2014, 22, 2973.	1.7	22
138	The ATP binding cassette transporter, ABCG1, localizes to cortical actin filaments. Scientific Reports, 2017, 7, 42025.	1.6	22
139	The myelin proteolipid plasmolipin forms oligomers and induces liquid-ordered membranes in the Golgi complex. Journal of Cell Science, 2015, 128, 2293-2302.	1.2	21
140	Prolonged Intake of Dietary Lipids Alters Membrane Structure and T Cell Responses in LDLrâˆ’/âˆ’ Mice. Journal of Immunology, 2016, 196, 3993-4002.	0.4	21
141	Real-Time Bioimpedance Sensing of Antifibrotic Drug Action in Primary Human Cells. ACS Sensors, 2017, 2, 1482-1490.	4.0	21
142	Dynamic organization of lymphocyte plasma membrane: lessons from advanced imaging methods. Immunology, 2010, 131, 1-8.	2.0	20
143	Clustering of the Î¶-Chain Can Initiate T Cell Receptor Signaling. International Journal of Molecular Sciences, 2020, 21, 3498.	1.8	20
144	Annexin A6 Is Critical to Maintain Glucose Homeostasis and Survival During Liver Regeneration in Mice. Hepatology, 2020, 72, 2149-2164.	3.6	20

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145	Can the Shape of Nanoparticles Enable the Targeting to Cancer Cells over Healthy Cells?. Advanced Functional Materials, 2021, 31, 2007880.	7.8	20
146	Geometric regulation of histone state directs melanoma reprogramming. Communications Biology, 2020, 3, 341.	2.0	19
147	Evaluation of Surface Plasmon Resonance (SPR) for Heparin Assay. Journal of Colloid and Interface Science, 1997, 194, 364-372.	5.0	18
148	Biointerfaces on Indiumâ€“Tin Oxide Prepared from Organophosphonic Acid Self-Assembled Monolayers. Langmuir, 2014, 30, 8509-8515.	1.6	18
149	Nanodomains in biological membranes. Essays in Biochemistry, 2015, 57, 93-107.	2.1	18
150	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. Australian Journal of Chemistry, 2005, 58, 660.	0.5	17
151	Probing DNAâ€“peptide interaction forces at the single-molecule level. Journal of Peptide Science, 2006, 12, 836-842.	0.8	17
152	Disruption of Serinc1, which facilitates serine-derived lipid synthesis, fails to alter macrophage function, lymphocyte proliferation or autoimmune disease susceptibility. Molecular Immunology, 2017, 82, 19-33.	1.0	17
153	tagPAINT: covalent labelling of genetically encoded protein tags for DNA-PAINT imaging. Royal Society Open Science, 2019, 6, 191268.	1.1	17
154	Low density lipoprotein interaction with amino acid-modified self assembled monolayers on surface plasmon resonance surfaces. Analytica Chimica Acta, 2002, 470, 3-17.	2.6	16
155	Singleâ€Molecule Experiments to Elucidate the Minimal Requirement for DNA Recognition by Transcription Factor Epitopes. Small, 2009, 5, 484-495.	5.2	16
156	The structure and luminescence properties of europium(iii) triflate doped self-assembled pyromellitamide gels. New Journal of Chemistry, 2011, 35, 1466.	1.4	16
157	The Reorientation of T-Cell Polarity and Inhibition of Immunological Synapse Formation by CD46 Involves Its Recruitment to Lipid Rafts. Journal of Lipids, 2011, 2011, 1-10.	1.9	16
158	Efficient synthesis of fused bicyclic ethers and their application in herbicide chemistry. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4643-4649.	1.0	16
159	The Benefits of Unnatural Amino Acid Incorporation as Protein Labels for Single Molecule Localization Microscopy. Frontiers in Chemistry, 2021, 9, 641355.	1.8	16
160	Distinct surveillance pathway for immunopathology during acute infection via autophagy and SR-BI. Scientific Reports, 2016, 6, 34440.	1.6	15
161	Observing the Reversible Single Molecule Electrochemistry of Alexa Fluor 647 Dyes by Total Internal Reflection Fluorescence Microscopy. Angewandte Chemie - International Edition, 2019, 58, 14495-14498.	7.2	15
162	3D active stabilization for single-molecule imaging. Nature Protocols, 2021, 16, 497-515.	5.5	15

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163	Direct-laser writing for subnanometer focusing and single-molecule imaging. Nature Communications, 2022, 13, 647.	5.8	15
164	Flexible polygonâ€mirror based laser scanning microscope platform for multiphoton inâ€vivo imaging. Journal of Biophotonics, 2017, 10, 1526-1537.	1.1	14
165	Ultralow- and Low-Background Surfaces for Single-Molecule Localization Microscopy of Multistep Biointerfaces for Single-Molecule Sensing. Langmuir, 2018, 34, 10012-10018.	1.6	14
166	Can single molecule localization microscopy detect nanoclusters in T cells?. Current Opinion in Chemical Biology, 2019, 51, 130-137.	2.8	14
167	High-Content Imaging of Unbiased Chemical Perturbations Reveals that the Phenotypic Plasticity of the Actin Cytoskeleton Is Constrained. Cell Systems, 2019, 9, 496-507.e5.	2.9	14
168	Evaluation of Surface Plasmon Resonance (SPR) for Heparin Assay. Journal of Colloid and Interface Science, 1997, 194, 373-378.	5.0	13
169	Detection of Oxidized Low-Density Lipoproteins Using Surface Plasmon Resonance. Analytical Chemistry, 1999, 71, 2459-2467.	3.2	13
170	How Do Cells Make Decisions: Engineering Micro- and Nanoenvironments for Cell Migration. Journal of Oncology, 2010, 2010, 1-7.	0.6	13
171	Caveolin-1-Mediated Apolipoprotein A-I Membrane Binding Sites Are Not Required for Cholesterol Efflux. PLoS ONE, 2011, 6, e23353.	1.1	13
172	Super-Resolution Imaging by Localization Microscopy. Methods in Molecular Biology, 2013, 950, 81-93.	0.4	13
173	Do signalling endosomes play a role in <scp>T</scp>Âcell activation?. FEBS Journal, 2013, 280, 5164-5176.	2.2	13
174	Cryo-electron microscopy and single molecule fluorescent microscopy detect CD4 receptor induced HIV size expansion prior to cell entry. Virology, 2015, 486, 121-133.	1.1	13
175	Measuring membrane association and protein diffusion within membranes with supercritical angle fluorescence microscopy. Biomedical Optics Express, 2016, 7, 1561.	1.5	13
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