Carsten Schultz

List of Publications by Citations

196 papers	8,326 citations	48 h-index	85 g-index
215 ext. papers	9,612 ext. citations	8.5 avg, IF	6.16 L-index

#	Paper	IF	Citations
196	A near-infrared fluorophore for live-cell super-resolution microscopy of cellular proteins. *Nature Chemistry*, **2013**, 5, 132-9	17.6	607
195	Role of guanylyl cyclase and cGMP-dependent protein kinase in long-term potentiation. *Nature*, **1994**, 368, 635-9	50.4	478
194	Spatiotemporal control of endocytosis by phosphatidylinositol-3,4-bisphosphate. *Nature*, **2013**, 499, 233-7	50.4	289
193	Amino acids for Diels-Alder reactions in living cells. *Angewandte Chemie - International Edition*, **2012** , 51, 4166-70	16.4	271
192	Genetically encoded copper-free click chemistry. *Angewandte Chemie - International Edition*, **2011**, 50, 3878-81	16.4	243
191	Minimal tags for rapid dual-color live-cell labeling and super-resolution microscopy. *Angewandte Chemie - International Edition*, **2014**, 53, 2245-9	16.4	210
190	Selective fluorescence labeling of lipids in living cells. *Angewandte Chemie - International Edition*, **2009**, 48, 1498-500	16.4	206
189	HyPer-3: a genetically encoded H(2)O(2) probe with improved performance for ratiometric and fluorescence lifetime imaging. *ACS Chemical Biology*, **2013**, 8, 535-42	4.9	187
188	Prodrugs of biologically active phosphate esters. *Bioorganic and Medicinal Chemistry*, **2003**, 11, 885-98	3.4	187
187	Long-term uncoupling of chloride secretion from intracellular calcium levels by Ins(3,4,5,6)P4. *Nature*, **1994**, 371, 711-4	50.4	179
186	Genetic encoding of a bicyclo[6.1.0]nonyne-charged amino acid enables fast cellular protein imaging by metal-free ligation. *ChemBioChem*, **2012**, 13, 2094-9	3.8	139
185	The power of fluorogenic probes. *Angewandte Chemie - International Edition*, **2013**, 52, 2408-10	16.4	134
184	Protein translocation as a tool: The current rapamycin story. *FEBS Letters*, **2012**, 586, 2097-105	3.8	125
183	Does cellular hydrogen peroxide diffuse or act locally?. *Antioxidants and Redox Signaling*, **2011**, 14, 1-7	8.4	124
182	Live-cell imaging of enzyme-substrate interaction reveals spatial regulation of PTP1B. *Science*, **2007** , 315, 115-9	33.3	122
181	The ENaC-overexpressing mouse as a model of cystic fibrosis lung disease. *Journal of Cystic Fibrosis*, **2011**, 10 Suppl 2, S172-82	4.1	112
180	A phosphoinositide conversion mechanism for exit from endosomes. *Nature*, **2016**, 529, 408-12	50.4	109

179	Simultaneous recording of multiple cellular events by FRET. *ACS Chemical Biology*, **2008**, 3, 156-60	4.9	106
178	Intracellular sphingosine releases calcium from lysosomes. *ELife*, **2015**, 4,	8.9	90
177	Lack of neutrophil elastase reduces inflammation, mucus hypersecretion, and emphysema, but not mucus obstruction, in mice with cystic fibrosis-like lung disease. *American Journal of Respiratory and Critical Care Medicine*, **2014**, 189, 1082-92	10.2	90
176	mTORC1 activity repression by late endosomal phosphatidylinositol 3,4-bisphosphate. *Science*, **2017**, 356, 968-972	33.3	89
175	Membrane-bound FRET probe visualizes MMP12 activity in pulmonary inflammation. *Nature Chemical Biology*, **2009**, 5, 628-30	11.7	89
174	In vivo profiling and visualization of cellular protein-lipid interactions using bifunctional fatty acids. *Angewandte Chemie - International Edition*, **2013**, 52, 4033-8	16.4	86
173	Photoswitchable diacylglycerols enable optical control of protein kinase C. *Nature Chemical Biology*, **2016**, 12, 755-62	11.7	83
172	Genetically encoded fluorescent indicator for imaging NAD(+)/NADH ratio changes in different cellular compartments. *Biochimica Et Biophysica Acta - General Subjects*, **2014**, 1840, 951-7	4	77
171	Principles for designing fluorescent sensors and reporters. *Nature Chemical Biology*, **2011**, 7, 480-3	11.7	77
170	Amino Acids for Diels–Alder Reactions in Living Cells. *Angewandte Chemie*, **2012**, 124, 4242-4246	3.6	73
169	Caged lipids as tools for investigating cellular signaling. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2014**, 1841, 1085-96	5	69
168	Calcium-dependent regulation of NF-(kappa)B activation in cystic fibrosis airway epithelial cells. *Cellular Signalling*, **2006**, 18, 652-60	4.9	69
167	Trifunctional lipid probes for comprehensive studies of single lipid species in living cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 1566-1571	11.5	68
166	Bifunctional Sphingosine for Cell-Based Analysis of Protein-Sphingolipid Interactions. *ACS Chemical Biology*, **2016**, 11, 222-30	4.9	68
165	Membrane-permeant esters of inositol polyphosphates, chemical syntheses and biological applications. *Tetrahedron*, **1997**, 53, 12017-12040	2.4	67
164	Genetically encoded FRET probe for PKC activity based on pleckstrin. *Journal of the American Chemical Society*, **2004**, 126, 11786-7	16.4	65
163	Activation of membrane-permeant caged PtdIns(3)P induces endosomal fusion in cells. *Nature Chemical Biology*, **2010**, 6, 324-6	11.7	64
162	Photoactivatable and cell-membrane-permeable phosphatidylinositol 3,4,5-trisphosphate. *Angewandte Chemie - International Edition*, **2011**, 50, 3811-4	16.4	63

161	Cellular delivery and photochemical release of a caged inositol-pyrophosphate induces PH-domain translocation in cellulo. *Nature Communications*, **2016**, 7, 10622	17.4	62
160	Airway mucus obstruction triggers macrophage activation and matrix metalloproteinase 12-dependent emphysema. *American Journal of Respiratory Cell and Molecular Biology*, **2014**, 51, 709-20	5.7	61
159	Genetisch kodierte kupferfreie Klick-Chemie. *Angewandte Chemie*, **2011**, 123, 3964-3967	3.6	61
158	Membrane lipids tune synaptic transmission by direct modulation of presynaptic potassium channels. *Neuron*, **2014**, 81, 787-99	13.9	60
157	Annexin A4 self-association modulates general membrane protein mobility in living cells. *Molecular Biology of the Cell*, **2006**, 17, 3318-28	3.5	58
156	A rapidly reversible chemical dimerizer system to study lipid signaling in living cells. *Angewandte Chemie - International Edition*, **2014**, 53, 6720-3	16.4	54
155	Spatially resolved monitoring of neutrophil elastase activity with ratiometric fluorescent reporters. *Angewandte Chemie - International Edition*, **2012**, 51, 6258-61	16.4	54
154	Spatiotemporal Analysis of a Glycolytic Activity Gradient Linked to Mouse Embryo Mesoderm Development. *Developmental Cell*, **2017**, 40, 331-341.e4	10.2	52
153	The fatty acid composition of diacylglycerols determines local signaling patterns. *Angewandte Chemie - International Edition*, **2013**, 52, 6330-4	16.4	52
152	Airway surface liquid volume regulation determines different airway phenotypes in liddle compared with betaENaC-overexpressing mice. *Journal of Biological Chemistry*, **2010**, 285, 26945-26955	5.4	52
151	In vivo imaging of mouse tumors by a lipidated cathepsin S substrate. *Angewandte Chemie - International Edition*, **2014**, 53, 7669-73	16.4	50
150	A small-molecule FRET probe to monitor phospholipase A2 activity in cells and organisms. *Angewandte Chemie - International Edition*, **2006**, 45, 508-12	16.4	50
149	Exclusive photorelease of signalling lipids at the plasma membrane. *Nature Communications*, **2015**, 6, 10056	17.4	49
148	Genetic code expansion for multiprotein complex engineering. *Nature Methods*, **2016**, 13, 997-1000	21.6	48
147	Highly Stable trans-Cyclooctene Amino Acids for Live-Cell Labeling. *Chemistry - A European Journal*, **2015**, 21, 12266-70	4.8	47
146	Rapid development of genetically encoded FRET reporters. *ACS Chemical Biology*, **2011**, 6, 685-91	4.9	47
145	Selektive Fluoreszenzmarkierung von Lipiden in lebenden Zellen. *Angewandte Chemie*, **2009**, 121, 1526-1529	3.6	46
144	PI3K/AKT/mTOR-dependent stabilization of oncogenic far-upstream element binding proteins in hepatocellular carcinoma cells. *Hepatology*, **2016**, 63, 813-26	11.2	46

143	Schnelle, zweifarbige Proteinmarkierung an lebenden Zellen für die hochauflösende Mikroskopie. *Angewandte Chemie*, **2014**, 126, 2278-2282	3.6	45
142	Switching heterotrimeric G protein subunits with a chemical dimerizer. *Chemistry and Biology*, **2011**, 18, 1126-33		45
141	A dual parameter FRET probe for measuring PKC and PKA activity in living cells. *Journal of the American Chemical Society*, **2006**, 128, 24-5	16.4	45
140	Multiparameter imaging for the analysis of intracellular signaling. *ChemBioChem*, **2005**, 6, 1323-30	3.8	45
139	Inositol 1,3,4-trisphosphate acts in vivo as a specific regulator of cellular signaling by inositol 3,4,5,6-tetrakisphosphate. *Journal of Biological Chemistry*, **1999**, 274, 18973-80	5.4	41
138	myo-Inositol 3,4,5,6-Tetrakisphosphate Inhibits an Apical Calcium-activated Chloride Conductance in Polarized Monolayers of a Cystic Fibrosis Cell Line. *Journal of Biological Chemistry*, **2000**, 275, 26906-26913	5.4	41
137	FRET-based and other fluorescent proteinase probes. *Biotechnology Journal*, **2014**, 9, 266-81	5.6	39
136	Protean proteases: at the cutting edge of lung diseases. *European Respiratory Journal*, **2017**, 49,	13.6	38
135	Recent developments of genetically encoded optical sensors for cell biology. *Biology of the Cell*, **2017**, 109, 1-23	3.5	38
134	Elastase activity on sputum neutrophils correlates with severity of lung disease in cystic fibrosis. *European Respiratory Journal*, **2018**, 51,	13.6	37
133	Heterogeneity and timing of translocation and membrane-mediated assembly of different annexins. *Experimental Cell Research*, **2008**, 314, 1039-47	4.2	37
132	Cellular uptake of PNA--terpyridine conjugates and its enhancement by Zn2+ ions. *Journal of the American Chemical Society*, **2006**, 128, 5986-7	16.4	37
131	CFTR regulates early pathogenesis of chronic obstructive lung disease in βENaC-overexpressing mice. *PLoS ONE*, **2012**, 7, e44059	3.7	36
130	Novel lipid tools and probes for biological investigations. *Current Opinion in Cell Biology*, **2018**, 53, 97-104	9	35
129	A Potent and Selective PARP11 Inhibitor Suggests Coupling between Cellular Localization and Catalytic Activity. *Cell Chemical Biology*, **2018**, 25, 1547-1553.e12	8.2	35
128	Elastase Exocytosis by Airway Neutrophils Is Associated with Early Lung Damage in Children with Cystic Fibrosis. *American Journal of Respiratory and Critical Care Medicine*, **2019**, 199, 873-881	10.2	34
127	DOTAM derivatives as active cartilage-targeting drug carriers for the treatment of osteoarthritis. *Bioconjugate Chemistry*, **2015**, 26, 383-8	6.3	33
126	Probing phospholipase a(2) with fluorescent phospholipid substrates. *ChemBioChem*, **2007**, 8, 1555-69	3.8	33

125	Membrane-Permeant 3-OH-Phosphorylated Phosphoinositide Derivatives. *Angewandte Chemie - International Edition*, **2001**, 40, 3004-8	16.4	33
124	Plasma membrane phosphoinositide balance regulates cell shape during Drosophila embryo morphogenesis. *Journal of Cell Biology*, **2014**, 205, 395-408	7.3	31
123	Visualization of intracellular hydrogen peroxide with HyPer, a genetically encoded fluorescent probe. *Methods in Enzymology*, **2013**, 526, 45-59	1.7	31
122	PIP induces the recycling of receptor tyrosine kinases. *Science Signaling*, **2014**, 7, ra5	8.8	30
121	The chemical biology of phosphoinositide 3-kinases. *ChemBioChem*, **2012**, 13, 2022-35	3.8	30
120	Endogenous Fatty Acids Are Essential Signaling Factors of Pancreatic Cells and Insulin Secretion. *Diabetes*, **2018**, 67, 1986-1998	0.9	29
119	Protein tango: the toolbox to capture interacting partners. *Angewandte Chemie - International Edition*, **2012**, 51, 8166-76	16.4	29
118	Membrane-permeant phosphoinositide derivatives as modulators of growth factor signaling and neurite outgrowth. *Chemistry and Biology*, **2009**, 16, 1190-6		29
117	Neutrophil elastase and matrix metalloproteinase 12 in cystic fibrosis lung disease. *Molecular and Cellular Pediatrics*, **2016**, 3, 25	3.3	29
116	Bioaccumulation of therapeutic drugs by human gut bacteria. *Nature*, **2021**, 597, 533-538	50.4	29
115	A FlAsH-based cross-linker to study protein interactions in living cells. *Angewandte Chemie - International Edition*, **2011**, 50, 12655-8	16.4	28
114	Fluorescence and bioluminescence procedures for functional proteomics. *Proteomics*, **2008**, 8, 1179-96	4.8	28
113	FRET probes to monitor phospholipase A2 activity. *Chemical Communications*, **2001**, 2500-1	5.8	28
112	Live-Cell STED Microscopy with Genetically Encoded Biosensor. *Nano Letters*, **2015**, 15, 2928-32	11.5	27
111	Die Stken fluorogener Sonden. *Angewandte Chemie*, **2013**, 125, 2466-2469	3.6	27
110	Synthesis of caged myo-inositol 1,3,4,5-tetrakisphosphate. *Tetrahedron Letters*, **2003**, 44, 1157-1159	2	27
109	Synchronized HIV assembly by tunable PIP changes reveals PIP requirement for stable Gag anchoring. *ELife*, **2017**, 6,	8.9	27
108	Optical control of GPR40 signalling in pancreatic cells. *Chemical Science*, **2017**, 8, 7604-7610	9.4	26

107	Versatile reagents to introduce caged phosphates. *Tetrahedron Letters*, **2003**, 44, 1153-1155	2	25
106	Sphingosine-1-Phosphate Lyase Deficient Cells as a Tool to Study Protein Lipid Interactions. *PLoS ONE*, **2016**, 11, e0153009	3.7	25
105	Quantification of phosphoinositides reveals strong enrichment of PIP in HIV-1 compared to producer cell membranes. *Scientific Reports*, **2019**, 9, 17661	4.9	25
104	Phosphatidylinositol 4,5-bisphosphate optical uncaging potentiates exocytosis. *ELife*, **2017**, 6,	8.9	24
103	Tetraspanin microdomains control localized protein kinase C signaling in B cells. *Science Signaling*, **2017**, 10,	8.8	23
102	Endosomal Phosphatidylinositol 3-Phosphate Promotes Gephyrin Clustering and GABAergic Neurotransmission at Inhibitory Postsynapses. *Journal of Biological Chemistry*, **2017**, 292, 1160-1177	5.4	23
101	Probing lipid- and drug-binding domains with fluorescent dyes. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 1162-73	3.4	23
100	Antagonists of myo-inositol 3,4,5,6-tetrakisphosphate allow repeated epithelial chloride secretion. *Bioorganic and Medicinal Chemistry*, **2003**, 11, 3315-29	3.4	23
99	Optical tools for understanding the complexity of β-cell signalling and insulin release. *Nature Reviews Endocrinology*, **2018**, 14, 721-737	15.2	23
98	Photoaktivierbares und zellmembranpermeables Phosphatidylinositol-3,4,5-trisphosphat. *Angewandte Chemie*, **2011**, 123, 3895-3898	3.6	22
97	Contribution of fluorophores to protein kinase C FRET probe performance. *ChemBioChem*, **2008**, 9, 1379-84	3.4	22
96	PLCβ isoforms differ in their subcellular location and their CT-domain dependent interaction with Gαq. *Cellular Signalling*, **2013**, 25, 255-63	4.9	21
95	2-Deoxy derivative is a partial agonist of the intracellular messenger inositol 3,4,5,6-tetrakisphosphate in the epithelial cell line T84. *Journal of Medicinal Chemistry*, **1998**, 41, 3635-44	8.3	21
94	FluoQ: a tool for rapid analysis of multiparameter fluorescence imaging data applied to oscillatory events. *ACS Chemical Biology*, **2013**, 8, 1862-8	4.9	20
93	Local Generation and Imaging of Hydrogen Peroxide in Living Cells. *Current Protocols in Chemical Biology*, **2017**, 9, 117-127	1.8	19
92	Challenges in studying phospholipid signaling. *Nature Chemical Biology*, **2010**, 6, 473-5	11.7	19
91	mCLCA3 does not contribute to calcium-activated chloride conductance in murine airways. *American Journal of Respiratory Cell and Molecular Biology*, **2012**, 47, 87-93	5.7	18
90	Can we see PIP(3) and hydrogen peroxide with a single probe?. *Antioxidants and Redox Signaling*, **2012**, 17, 505-12	8.4	18

89	visualization of osteoarthritic hypertrophic lesions. *Chemical Science*, **2015**, 6, 6256-6261	9.4	17
88	Conformational analysis of a genetically encoded FRET biosensor by SAXS. *Biophysical Journal*, **2012**, 102, 2866-75	2.9	17
87	Imaging lipids in living cells. *Cold Spring Harbor Protocols*, **2010**, 2010, pdb.top83	1.2	17
86	Inositol polyphosphate derivative inhibits Na+ transport and improves fluid dynamics in cystic fibrosis airway epithelia. *American Journal of Physiology - Cell Physiology*, **2005**, 289, C512-20	5.4	17
85	Optical Control of Lysophosphatidic Acid Signaling. *Journal of the American Chemical Society*, **2020**, 142, 10612-10616	16.4	15
84	Imaging H2O2 microdomains in receptor tyrosine kinases signaling. *Methods in Enzymology*, **2013**, 526, 175-87	1.7	15
83	Synthesis and Metabolism of the myo-Inositol Pentakisphosphates. *Liebigs Annalen*, **1997**, 1997, 1861-1869		15
82	Membrane-permeant analogues of the putative second messenger myo-inositol 3,4,5,6-tetrakisphosphate. *Journal of the Chemical Society Perkin Transactions 1*, **1996**, 1683		15
81	High-Content Imaging Platform for Profiling Intracellular Signaling Network Activity in Living Cells. *Cell Chemical Biology*, **2016**, 23, 1550-1559	8.2	15
80	PTEN suppresses axon outgrowth by down-regulating the level of detyrosinated microtubules. *PLoS ONE*, **2018**, 13, e0193257	3.7	15
79	Bifunktionalisierte Fettsäuren zur Visualisierung und Identifizierung von Protein-Lipid-Interaktionen in lebenden Zellen. *Angewandte Chemie*, **2013**, 125, 4125-4130	3.6	14
78	Optotaxis: Caged Lysophosphatidic Acid Enables Optical Control of a Chemotactic Gradient. *Cell Chemical Biology*, **2016**, 23, 629-634	8.2	14
77	Analysis of protein complex hierarchy in living cells. *ACS Chemical Biology*, **2008**, 3, 749-55	4.9	13
76	Eine FRET-Sonde zur Messung der Aktivität von Phospholipase A2 in Zellen und Organismen. *Angewandte Chemie*, **2006**, 118, 522-527	3.6	13
75	Photorelease of 2-Arachidonoylglycerol in Live Cells. *Journal of the American Chemical Society*, **2019**, 141, 16544-16547	16.4	12
74	Death-Associated Protein Kinase Activity Is Regulated by Coupled Calcium/Calmodulin Binding to Two Distinct Sites. *Structure*, **2016**, 24, 851-61	5.2	12
73	Chemical activators of protein phosphatase-1 induce calcium release inside intact cells. *Chemistry and Biology*, **2013**, 20, 1179-86		12
72	Räumlich aufgelöste Analyse der Aktivität der Neutrophilenelastase mit ratiometrischen Fluoreszenzsonden. *Angewandte Chemie*, **2012**, 124, 6363-6366	3.6	12

71	A membrane-permeant, bioactivatable derivative of Ins(1,3,4)P3 and its effect on Cl(-)-secretion from T84 cells. *Bioorganic and Medicinal Chemistry Letters*, **1998**, 8, 1857-60	2.9	12
70	Synthesis and Cellular Labeling of Caged Phosphatidylinositol Derivatives. *Chemistry - A European Journal*, **2020**, 26, 384-389	4.8	12
69	Cathepsin G Activity as a New Marker for Detecting Airway Inflammation by Microscopy and Flow Cytometry. *ACS Central Science*, **2019**, 5, 539-548	16.8	11
68	Neutrophil Adhesion Is a Prerequisite for Antibody-Mediated Proteolytic Tissue Damage in Experimental Models of Epidermolysis Bullosa Acquisita. *Journal of Investigative Dermatology*, **2018**, 138, 1990-1998	4.3	11
67	T-CrAsH: a heterologous chemical crosslinker. *ChemBioChem*, **2014**, 15, 1765-8	3.8	11
66	Die Fettsäurezusammensetzung von Diacylglycerinen bestimmt lokale Signalmuster. *Angewandte Chemie*, **2013**, 125, 6455-6459	3.6	11
65	Bioactivatable derivatives of 8-substituted cAMP-analogues. *Bioorganic and Medicinal Chemistry Letters*, **1997**, 7, 945-948	2.9	11
64	Molecular tools for cell and systems biology. *HFSP Journal*, **2007**, 1, 230-48		11
63	Synthesis of thiophosphate analogues of DL-myo-inositol 1.2-Cyclic phosphate. *Tetrahedron Letters*, **1988**, 29, 3919-3920	2	11
62	A Bifunctional Noncanonical Amino Acid: Synthesis, Expression, and Residue-Specific Proteome-wide Incorporation. *Biochemistry*, **2018**, 57, 4747-4752	3.2	10
61	Inositol pentakisphosphate isomers bind PH domains with varying specificity and inhibit phosphoinositide interactions. *BMC Structural Biology*, **2011**, 11, 11	2.7	10
60	Maturation of the matrix and viral membrane of HIV-1. *Science*, **2021**, 373, 700-704	33.3	10
59	A Ratiometric Sensor for Imaging Insulin Secretion in Single Cells. *Cell Chemical Biology*, **2017**, 24, 525-531.e4	8.2	9
58	Reversible chemical dimerizer-induced recovery of PIP2 levels moves clathrin to the plasma membrane. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 2862-7	3.4	9
57	Tissue clearing for optical anatomy. *Angewandte Chemie - International Edition*, **2013**, 52, 10949-51	16.4	9
56	FlAsH-basierte Verknüpfungen von Proteinen in lebenden Zellen. *Angewandte Chemie*, **2011**, 123, 12867-12870	3.8	9
55	Protease FRET Reporters Targeting Neutrophil Extracellular Traps. *Journal of the American Chemical Society*, **2020**,	16.4	9
54	Lipid Discovery by Combinatorial Screening and Untargeted LC-MS/MS. *Scientific Reports*, **2016**, 6, 27920	4.9	8

53	A Rapidly Reversible Chemical Dimerizer System to Study Lipid Signaling in Living Cells. *Angewandte Chemie*, **2014**, 126, 6838-6841	3.6	8
52	Investigation of the ligand spectrum of human sterol carrier protein 2 using a direct mass spectrometry assay. *Archives of Biochemistry and Biophysics*, **2007**, 461, 50-8	4.1	8
51	Single- and dual-parameter FRET kinase probes based on pleckstrin. *Nature Protocols*, **2006**, 1, 1044-55	18.8	8
50	Covalent Labeling of Biomolecules in Living Cells. *Springer Series on Fluorescence*, **2011**, 225-261	0.5	8
49	A Genetically Encoded Diazirine Analogue for RNA-Protein Photo-crosslinking. *ChemBioChem*, **2020**, 21, 88-93	3.8	8
48	Synthesis and Evaluation of Novel Ring-Strained Noncanonical Amino Acids for Residue-Specific Bioorthogonal Reactions in Living Cells. *Chemistry - A European Journal*, **2021**, 27, 6094-6099	4.8	8
47	Proteintango: wie man den Partner einfügt. *Angewandte Chemie*, **2012**, 124, 8288-8298	3.6	7
46	Synthesis of bi- and tricyclic analogues of myo-inositol 3,4,5,6- and 1,4,5,6-tetrakisphosphate with extended carbon backbone. *Tetrahedron*, **2001**, 57, 519-524	2.4	7
45	Membranpermeable 3-OH-phosphorylierte Phosphoinositidderivate. *Angewandte Chemie*, **2001**, 113, 3093-3096	3.6	7
44	Synthesis of DL-myo-inositol 1-phosphate and its thiophosphate analogue. *Tetrahedron Letters*, **1988**, 29, 3921-3922	2	7
43	ACLY is the novel signaling target of PIP/PIP and Lyn in acute myeloid leukemia. *Heliyon*, **2020**, 6, e03910	3.6	6
42	Glycolysis regulates Hedgehog signalling via the plasma membrane potential. *EMBO Journal*, **2020**, 39, e101767	13	6
41	Phosphatidylinositol 3,4-bisphosphate synthesis and turnover are spatially segregated in the endocytic pathway. *Journal of Biological Chemistry*, **2020**, 295, 1091-1104	5.4	6
40	Phosphatidylinositol 3,4-bisphosphate synthesis and turnover are spatially segregated in the endocytic pathway. *Journal of Biological Chemistry*, **2020**, 295, 1091-1104	5.4	6
39	Caged lipids for subcellular manipulation. *Current Opinion in Chemical Biology*, **2021**, 65, 42-48	9.7	6
38	Visualisierung von Maustumoren mit einem lipidierten Cathepsin-S-Substrat. *Angewandte Chemie*, **2014**, 126, 7802-7806	3.6	5
37	Labeling lipids for imaging in fixed cells. *Cold Spring Harbor Protocols*, **2010**, 2010, pdb.prot5458	1.2	5
36	Labeling lipids for imaging in live cells. *Cold Spring Harbor Protocols*, **2010**, 2010, pdb.prot5459	1.2	5

35	Vicinal thiols are involved in inositol 1,2,3,5,6-pentakisphosphate 5-phosphatase activity from fetal calf thymus. *Biochemical and Biophysical Research Communications*, **1997**, 240, 146-9	3.4	5
34	Synthesis and Cellular Labeling of Multifunctional Phosphatidylinositol Bis- and Trisphosphate Derivatives. *Angewandte Chemie - International Edition*, **2021**, 60, 19759-19765	16.4	5
33	Relationship between airway dysbiosis, inflammation and lung function in adults with cystic fibrosis. *Journal of Cystic Fibrosis*, **2021**, 20, 754-760	4.1	5
32	Photolysis of Caged Inositol Pyrophosphate InsP Directly Modulates Intracellular Ca Oscillations and Controls C2AB Domain Localization. *Journal of the American Chemical Society*, **2020**, 142, 10606-10611	16.4	4
31	Transfection of cells with DNA encoding a visible fluorescent protein-tagged lipid-binding domain. *Cold Spring Harbor Protocols*, **2010**, 2010, pdb.prot5457	1.2	4
30	Fluorescent revelations. *Chemistry and Biology*, **2009**, 16, 107-11		4
29	Membrane-Permeant, Bioactivatable Derivatives of Inositol Polyphosphates and Phosphoinositides. *ACS Symposium Series*, **1998**, 232-243	0.4	4
28	Inositol-requiring enzyme-1 regulates phosphoinositide signaling lipids and macrophage growth. *EMBO Reports*, **2020**, 21, e51462	6.5	4
27	New method for rapid and dynamic quantification of elastase activity on sputum neutrophils from patients with cystic fibrosis using flow cytometry. *European Respiratory Journal*, **2020**, 55,	13.6	3
26	A single-cell model of PIP3 dynamics using chemical dimerization. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 2868-76	3.4	3
25	Target-Activated Prodrugs (TAPs) for the Autoregulated Inhibition of MMP12. *ACS Medicinal Chemistry Letters*, **2012**, 3, 653-7	4.3	3
24	Gekl□te Gewebeproben f□ die optische Anatomie. *Angewandte Chemie*, **2013**, 125, 11151-11154	3.6	3
23	Chemical Biology Toolbox for Studying Pancreatic Islet Function - A Perspective. *Cell Chemical Biology*, **2020**, 27, 1015-1031	8.2	3
22	Regulation of Calcium Oscillations in □Cells by Co-activated Cannabinoid Receptors. *Cell Chemical Biology*, **2021**, 28, 88-96.e3	8.2	3
21	Visualization of Intracellular Hydrogen Peroxide with the Genetically Encoded Fluorescent Probe HyPer in NIH-3T3 Cells. *Methods in Molecular Biology*, **2019**, 1982, 259-274	1.4	2
20	Reporters to monitor cellular MMP12 activity **2010**,		2
19	Simultaneous protein tagging in two colors. *Chemistry and Biology*, **2008**, 15, 91-2		2
18	An Inositol Phosphate Analog, INO-4995, Normalizes Electrophysiology in CF Airway Epithelia **2005**, 115-127		2

17	Controlling Protein Function by Caged Compounds140-173		2
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