

Carsten Schultz

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.

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	ATP is an essential autocrine factor for pancreatic β cell signaling and insulin secretion.. <i>Physiological Reports</i> , 2022 , 10, e15159	2.6	0
195	Membrane-Permeant, Bioactivatable Coumarin Derivatives for In-Cell Labelling.. <i>ChemBioChem</i> , 2022 , e202100699	3.8	0
194	Endosomal phosphatidylinositol 3-phosphate controls synaptic vesicle cycling and neurotransmission.. <i>EMBO Journal</i> , 2022 , e109352	13	0
193	Visualization of Ectopic Serine Protease Activity by Förster Resonance Energy Transfer-Based Reporters. <i>ACS Chemical Biology</i> , 2021 , 16, 2174-2184	4.9	0
192	Synthesis and Evaluation of Novel Ring-Strained Noncanonical Amino Acids for Residue-Specific Bioorthogonal Reactions in Living Cells. <i>Chemistry - A European Journal</i> , 2021 , 27, 6094-6099	4.8	8
191	Monitoring Neutrophil Elastase and Cathepsin G Activity in Human Sputum Samples. <i>Journal of Visualized Experiments</i> , 2021 ,	1.6	1
190	Synthesis and Cellular Labeling of Multifunctional Phosphatidylinositol Bis- and Trisphosphate Derivatives. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19759-19765	16.4	5
189	Synthesis and Cellular Labeling of Multifunctional Phosphatidylinositol Bis- and Trisphosphate Derivatives. <i>Angewandte Chemie</i> , 2021 , 133, 19912-19918	3.6	0
188	Regulation of Calcium Oscillations in β Cells by Co-activated Cannabinoid Receptors. <i>Cell Chemical Biology</i> , 2021 , 28, 88-96.e3	8.2	3
187	amTCO, a new trans-cyclooctene derivative to study drug-target interactions in cells. <i>Chemical Communications</i> , 2021 , 57, 1814-1817	5.8	1
186	Maturation of the matrix and viral membrane of HIV-1. <i>Science</i> , 2021 , 373, 700-704	33.3	10
185	Monitoring the cellular metabolism of a membrane-permeant photo-caged phosphatidylinositol 3,4,5-trisphosphate derivative. <i>Chemistry and Physics of Lipids</i> , 2021 , 241, 105124	3.7	0
184	Relationship between airway dysbiosis, inflammation and lung function in adults with cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2021 , 20, 754-760	4.1	5
183	Bioaccumulation of therapeutic drugs by human gut bacteria. <i>Nature</i> , 2021 , 597, 533-538	50.4	29
182	Caged lipids for subcellular manipulation. <i>Current Opinion in Chemical Biology</i> , 2021 , 65, 42-48	9.7	6
181	Optical Control of Lysophosphatidic Acid Signaling. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10612-10616	16.4	15
180	Photolysis of Caged Inositol Pyrophosphate InsP Directly Modulates Intracellular Ca Oscillations and Controls C2AB Domain Localization. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10606-10611	16.4	4

179	Photo-releasable derivatives of inositol pyrophosphates. <i>Methods in Enzymology</i> , 2020 , 641, 53-73	1.7	1
178	New method for rapid and dynamic quantification of elastase activity on sputum neutrophils from patients with cystic fibrosis using flow cytometry. <i>European Respiratory Journal</i> , 2020 , 55,	13.6	3
177	ACLY is the novel signaling target of PIP/PIP and Lyn in acute myeloid leukemia. <i>Heliyon</i> , 2020 , 6, e039103.	10.6	6
176	Glycolysis regulates Hedgehog signalling via the plasma membrane potential. <i>EMBO Journal</i> , 2020 , 39, e101767	13	6
175	Inositol-requiring enzyme-1 regulates phosphoinositide signaling lipids and macrophage growth. <i>EMBO Reports</i> , 2020 , 21, e51462	6.5	4
174	Phosphatidylinositol 3,4-bisphosphate synthesis and turnover are spatially segregated in the endocytic pathway. <i>Journal of Biological Chemistry</i> , 2020 , 295, 1091-1104	5.4	6
173	A Genetically Encoded Diazirine Analogue for RNA-Protein Photo-crosslinking. <i>ChemBioChem</i> , 2020 , 21, 88-93	3.8	8
172	Synthesis and Cellular Labeling of Caged Phosphatidylinositol Derivatives. <i>Chemistry - A European Journal</i> , 2020 , 26, 384-389	4.8	12
171	Phosphatidylinositol 3,4-bisphosphate synthesis and turnover are spatially segregated in the endocytic pathway. <i>Journal of Biological Chemistry</i> , 2020 , 295, 1091-1104	5.4	6
170	Chemical Biology Toolbox for Studying Pancreatic Islet Function - A Perspective. <i>Cell Chemical Biology</i> , 2020 , 27, 1015-1031	8.2	3
169	Protease FRET Reporters Targeting Neutrophil Extracellular Traps. <i>Journal of the American Chemical Society</i> , 2020 ,	16.4	9
168	Photorelease of 2-Arachidonoylglycerol in Live Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16544-16547	16.4	12
167	Visualization of Intracellular Hydrogen Peroxide with the Genetically Encoded Fluorescent Probe HyPer in NIH-3T3 Cells. <i>Methods in Molecular Biology</i> , 2019 , 1982, 259-274	1.4	2
166	The Life Science Toolbox Provided by Chemical Biology. <i>Israel Journal of Chemistry</i> , 2019 , 59, 100-105	3.4	
165	Cathepsin G Activity as a New Marker for Detecting Airway Inflammation by Microscopy and Flow Cytometry. <i>ACS Central Science</i> , 2019 , 5, 539-548	16.8	11
164	Quantification of phosphoinositides reveals strong enrichment of PIP in HIV-1 compared to producer cell membranes. <i>Scientific Reports</i> , 2019 , 9, 17661	4.9	25
163	Elastase Exocytosis by Airway Neutrophils Is Associated with Early Lung Damage in Children with Cystic Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 199, 873-881	10.2	34
162	Neutrophil Adhesion Is a Prerequisite for Antibody-Mediated Proteolytic Tissue Damage in Experimental Models of Epidermolysis Bullosa Acquisita. <i>Journal of Investigative Dermatology</i> , 2018 , 138, 1990-1998	4.3	11

161	Elastase activity on sputum neutrophils correlates with severity of lung disease in cystic fibrosis. <i>European Respiratory Journal</i> , 2018 , 51,	13.6	37
160	A Bifunctional Noncanonical Amino Acid: Synthesis, Expression, and Residue-Specific Proteome-wide Incorporation. <i>Biochemistry</i> , 2018 , 57, 4747-4752	3.2	10
159	Novel lipid tools and probes for biological investigations. <i>Current Opinion in Cell Biology</i> , 2018 , 53, 97-104		35
158	Endogenous Fatty Acids Are Essential Signaling Factors of Pancreatic β Cells and Insulin Secretion. <i>Diabetes</i> , 2018 , 67, 1986-1998	0.9	29
157	Optical tools for understanding the complexity of β cell signalling and insulin release. <i>Nature Reviews Endocrinology</i> , 2018 , 14, 721-737	15.2	23
156	A Potent and Selective PARP1 Inhibitor Suggests Coupling between Cellular Localization and Catalytic Activity. <i>Cell Chemical Biology</i> , 2018 , 25, 1547-1553.e12	8.2	35
155	PTEN suppresses axon outgrowth by down-regulating the level of detyrosinated microtubules. <i>PLoS ONE</i> , 2018 , 13, e0193257	3.7	15
154	Trifunctional lipid probes for comprehensive studies of single lipid species in living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1566-1571	11.5	68
153	Spatiotemporal Analysis of a Glycolytic Activity Gradient Linked to Mouse Embryo Mesoderm Development. <i>Developmental Cell</i> , 2017 , 40, 331-341.e4	10.2	52
152	Protean proteases: at the cutting edge of lung diseases. <i>European Respiratory Journal</i> , 2017 , 49,	13.6	38
151	Tetraspanin microdomains control localized protein kinase C signaling in B cells. <i>Science Signaling</i> , 2017 , 10,	8.8	23
150	mTORC1 activity repression by late endosomal phosphatidylinositol 3,4-bisphosphate. <i>Science</i> , 2017 , 356, 968-972	33.3	89
149	A Ratiometric Sensor for Imaging Insulin Secretion in Single β Cells. <i>Cell Chemical Biology</i> , 2017 , 24, 525-531.e4	31.4	9
148	Endosomal Phosphatidylinositol 3-Phosphate Promotes Gephyrin Clustering and GABAergic Neurotransmission at Inhibitory Postsynapses. <i>Journal of Biological Chemistry</i> , 2017 , 292, 1160-1177	5.4	23
147	Optical control of GPR40 signalling in pancreatic β cells. <i>Chemical Science</i> , 2017 , 8, 7604-7610	9.4	26
146	Local Generation and Imaging of Hydrogen Peroxide in Living Cells. <i>Current Protocols in Chemical Biology</i> , 2017 , 9, 117-127	1.8	19
145	Recent developments of genetically encoded optical sensors for cell biology. <i>Biology of the Cell</i> , 2017 , 109, 1-23	3.5	38
144	Phosphatidylinositol 4,5-bisphosphate optical uncaging potentiates exocytosis. <i>ELife</i> , 2017 , 6,	8.9	24

143	Synchronized HIV assembly by tunable PIP changes reveals PIP requirement for stable Gag anchoring. <i>ELife</i> , 2017 , 6,	8.9	27
142	A Protease Inhibitor Tackles Epithelial Sodium Channels in Cystic Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016 , 194, 650-2	10.2	1
141	Photoswitchable diacylglycerols enable optical control of protein kinase C. <i>Nature Chemical Biology</i> , 2016 , 12, 755-62	11.7	83
140	Genetic code expansion for multiprotein complex engineering. <i>Nature Methods</i> , 2016 , 13, 997-1000	21.6	48
139	Lipid Discovery by Combinatorial Screening and Untargeted LC-MS/MS. <i>Scientific Reports</i> , 2016 , 6, 27920	4.9	8
138	Death-Associated Protein Kinase Activity Is Regulated by Coupled Calcium/Calmodulin Binding to Two Distinct Sites. <i>Structure</i> , 2016 , 24, 851-61	5.2	12
137	A phosphoinositide conversion mechanism for exit from endosomes. <i>Nature</i> , 2016 , 529, 408-12	50.4	109
136	Cellular delivery and photochemical release of a caged inositol-pyrophosphate induces PH-domain translocation in cellulo. <i>Nature Communications</i> , 2016 , 7, 10622	17.4	62
135	Bifunctional Sphingosine for Cell-Based Analysis of Protein-Sphingolipid Interactions. <i>ACS Chemical Biology</i> , 2016 , 11, 222-30	4.9	68
134	Sphingosine-1-Phosphate Lyase Deficient Cells as a Tool to Study Protein Lipid Interactions. <i>PLoS ONE</i> , 2016 , 11, e0153009	3.7	25
133	PI3K/AKT/mTOR-dependent stabilization of oncogenic far-upstream element binding proteins in hepatocellular carcinoma cells. <i>Hepatology</i> , 2016 , 63, 813-26	11.2	46
132	High-Content Imaging Platform for Profiling Intracellular Signaling Network Activity in Living Cells. <i>Cell Chemical Biology</i> , 2016 , 23, 1550-1559	8.2	15
131	Optotaxis: Caged Lysophosphatidic Acid Enables Optical Control of a Chemotactic Gradient. <i>Cell Chemical Biology</i> , 2016 , 23, 629-634	8.2	14
130	Neutrophil elastase and matrix metalloproteinase 12 in cystic fibrosis lung disease. <i>Molecular and Cellular Pediatrics</i> , 2016 , 3, 25	3.3	29
129	Reversible chemical dimerizer-induced recovery of PIP2 levels moves clathrin to the plasma membrane. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 2862-7	3.4	9
128	Live-Cell STED Microscopy with Genetically Encoded Biosensor. <i>Nano Letters</i> , 2015 , 15, 2928-32	11.5	27
127	visualization of osteoarthritic hypertrophic lesions. <i>Chemical Science</i> , 2015 , 6, 6256-6261	9.4	17
126	Exclusive photorelease of signalling lipids at the plasma membrane. <i>Nature Communications</i> , 2015 , 6, 10056	17.4	49

125	Highly Stable trans-Cyclooctene Amino Acids for Live-Cell Labeling. <i>Chemistry - A European Journal</i> , 2015 , 21, 12266-70	4.8	47
124	Intracellular sphingosine releases calcium from lysosomes. <i>ELife</i> , 2015 , 4,	8.9	90
123	A single-cell model of PIP3 dynamics using chemical dimerization. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 2868-76	3.4	3
122	DOTAM derivatives as active cartilage-targeting drug carriers for the treatment of osteoarthritis. <i>Bioconjugate Chemistry</i> , 2015 , 26, 383-8	6.3	33
121	Membrane lipids tune synaptic transmission by direct modulation of presynaptic potassium channels. <i>Neuron</i> , 2014 , 81, 787-99	13.9	60
120	Minimal tags for rapid dual-color live-cell labeling and super-resolution microscopy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2245-9	16.4	210
119	PIP ₂ induces the recycling of receptor tyrosine kinases. <i>Science Signaling</i> , 2014 , 7, ra5	8.8	30
118	Genetically encoded fluorescent indicator for imaging NAD(+)/NADH ratio changes in different cellular compartments. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 951-7	4	77
117	Visualisierung von Maustumoren mit einem lipidierten Cathepsin-S-Substrat. <i>Angewandte Chemie</i> , 2014 , 126, 7802-7806	3.6	5
116	T-CrAsH: a heterologous chemical crosslinker. <i>ChemBioChem</i> , 2014 , 15, 1765-8	3.8	11
115	Plasma membrane phosphoinositide balance regulates cell shape during Drosophila embryo morphogenesis. <i>Journal of Cell Biology</i> , 2014 , 205, 395-408	7.3	31
114	FRET-based and other fluorescent proteinase probes. <i>Biotechnology Journal</i> , 2014 , 9, 266-81	5.6	39
113	In vivo imaging of mouse tumors by a lipidated cathepsin S substrate. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7669-73	16.4	50
112	A rapidly reversible chemical dimerizer system to study lipid signaling in living cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6720-3	16.4	54
111	Schnelle, zweifarbige Proteinmarkierung an lebenden Zellen für die hochauflösende Mikroskopie. <i>Angewandte Chemie</i> , 2014 , 126, 2278-2282	3.6	45
110	Airway mucus obstruction triggers macrophage activation and matrix metalloproteinase 12-dependent emphysema. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014 , 51, 709-20	5.7	61
109	A Rapidly Reversible Chemical Dimerizer System to Study Lipid Signaling in Living Cells. <i>Angewandte Chemie</i> , 2014 , 126, 6838-6841	3.6	8
108	Lack of neutrophil elastase reduces inflammation, mucus hypersecretion, and emphysema, but not mucus obstruction, in mice with cystic fibrosis-like lung disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 189, 1082-92	10.2	90

107	Caged lipids as tools for investigating cellular signaling. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014 , 1841, 1085-96	5	69
106	Chemical activators of protein phosphatase-1 induce calcium release inside intact cells. <i>Chemistry and Biology</i> , 2013 , 20, 1179-86		12
105	PLC β isoforms differ in their subcellular location and their CT-domain dependent interaction with Gq. <i>Cellular Signalling</i> , 2013 , 25, 255-63	4.9	21
104	A near-infrared fluorophore for live-cell super-resolution microscopy of cellular proteins. <i>Nature Chemistry</i> , 2013 , 5, 132-9	17.6	607
103	HyPer-3: a genetically encoded H(2)O(2) probe with improved performance for ratiometric and fluorescence lifetime imaging. <i>ACS Chemical Biology</i> , 2013 , 8, 535-42	4.9	187
102	The power of fluorogenic probes. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2408-10	16.4	134
101	In vivo profiling and visualization of cellular protein-lipid interactions using bifunctional fatty acids. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4033-8	16.4	86
100	Bifunktionalisierte Fettsäuren zur Visualisierung und Identifizierung von Protein-Lipid-Interaktionen in lebenden Zellen. <i>Angewandte Chemie</i> , 2013 , 125, 4125-4130	3.6	14
99	Visualization of intracellular hydrogen peroxide with HyPer, a genetically encoded fluorescent probe. <i>Methods in Enzymology</i> , 2013 , 526, 45-59	1.7	31
98	Imaging H2O2 microdomains in receptor tyrosine kinases signaling. <i>Methods in Enzymology</i> , 2013 , 526, 175-87	1.7	15
97	Spatiotemporal control of endocytosis by phosphatidylinositol-3,4-bisphosphate. <i>Nature</i> , 2013 , 499, 233-7	50.4	289
96	FluoQ: a tool for rapid analysis of multiparameter fluorescence imaging data applied to oscillatory events. <i>ACS Chemical Biology</i> , 2013 , 8, 1862-8	4.9	20
95	Tissue clearing for optical anatomy. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10949-51	16.4	9
94	The fatty acid composition of diacylglycerols determines local signaling patterns. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6330-4	16.4	52
93	Geklärt: Gewebeproben für die optische Anatomie. <i>Angewandte Chemie</i> , 2013 , 125, 11151-11154	3.6	3
92	Die Fettsäurezusammensetzung von Diacylglycerinen bestimmt lokale Signalmuster. <i>Angewandte Chemie</i> , 2013 , 125, 6455-6459	3.6	11
91	Die Stärken fluorogener Sonden. <i>Angewandte Chemie</i> , 2013 , 125, 2466-2469	3.6	27
90	mCLCA3 does not contribute to calcium-activated chloride conductance in murine airways. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012 , 47, 87-93	5.7	18

89	Target-Activated Prodrugs (TAPs) for the Autoregulated Inhibition of MMP12. <i>ACS Medicinal Chemistry Letters</i> , 2012 , 3, 653-7	4.3	3
88	The chemical biology of phosphoinositide 3-kinases. <i>ChemBioChem</i> , 2012 , 13, 2022-35	3.8	30
87	Genetic encoding of a bicyclo[6.1.0]nonyne-charged amino acid enables fast cellular protein imaging by metal-free ligation. <i>ChemBioChem</i> , 2012 , 13, 2094-9	3.8	139
86	Conformational analysis of a genetically encoded FRET biosensor by SAXS. <i>Biophysical Journal</i> , 2012 , 102, 2866-75	2.9	17
85	CFTR regulates early pathogenesis of chronic obstructive lung disease in ENaC-overexpressing mice. <i>PLoS ONE</i> , 2012 , 7, e44059	3.7	36
84	Amino Acids for Diels-Alder Reactions in Living Cells. <i>Angewandte Chemie</i> , 2012 , 124, 4242-4246	3.6	73
83	Räumlich aufgelöste Analyse der Aktivität der Neutrophilenelastase mit ratiometrischen Fluoreszenzsonden. <i>Angewandte Chemie</i> , 2012 , 124, 6363-6366	3.6	12
82	Proteintango: wie man den Partner einfügt. <i>Angewandte Chemie</i> , 2012 , 124, 8288-8298	3.6	7
81	Amino acids for Diels-Alder reactions in living cells. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4166-70	16.4	271
80	Spatially resolved monitoring of neutrophil elastase activity with ratiometric fluorescent reporters. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 6258-61	16.4	54
79	Protein tango: the toolbox to capture interacting partners. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8166-76	16.4	29
78	Can we see PIP(3) and hydrogen peroxide with a single probe?. <i>Antioxidants and Redox Signaling</i> , 2012 , 17, 505-12	8.4	18
77	Protein translocation as a tool: The current rapamycin story. <i>FEBS Letters</i> , 2012 , 586, 2097-105	3.8	125
76	Does cellular hydrogen peroxide diffuse or act locally?. <i>Antioxidants and Redox Signaling</i> , 2011 , 14, 1-7	8.4	124
75	The ENaC-overexpressing mouse as a model of cystic fibrosis lung disease. <i>Journal of Cystic Fibrosis</i> , 2011 , 10 Suppl 2, S172-82	4.1	112
74	Inositol pentakisphosphate isomers bind PH domains with varying specificity and inhibit phosphoinositide interactions. <i>BMC Structural Biology</i> , 2011 , 11, 11	2.7	10
73	Switching heterotrimeric G protein subunits with a chemical dimerizer. <i>Chemistry and Biology</i> , 2011 , 18, 1126-33		45
72	Photoaktivierbares und zellmembranpermeables Phosphatidylinositol-3,4,5-trisphosphat. <i>Angewandte Chemie</i> , 2011 , 123, 3895-3898	3.6	22

71	Genetisch kodierte kupferfreie Klick-Chemie. <i>Angewandte Chemie</i> , 2011 , 123, 3964-3967	3.6	61
70	FLAsH-basierte Verknüpfungen von Proteinen in lebenden Zellen. <i>Angewandte Chemie</i> , 2011 , 123, 12867-12870	3.6	9
69	Photoactivatable and cell-membrane-permeable phosphatidylinositol 3,4,5-trisphosphate. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3811-4	16.4	63
68	Genetically encoded copper-free click chemistry. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3878-81	16.4	243
67	A FLAsH-based cross-linker to study protein interactions in living cells. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12655-8	16.4	28
66	Rapid development of genetically encoded FRET reporters. <i>ACS Chemical Biology</i> , 2011 , 6, 685-91	4.9	47
65	Principles for designing fluorescent sensors and reporters. <i>Nature Chemical Biology</i> , 2011 , 7, 480-3	11.7	77
64	Covalent Labeling of Biomolecules in Living Cells. <i>Springer Series on Fluorescence</i> , 2011 , 225-261	0.5	8
63	Activation of membrane-permeant caged PtdIns(3)P induces endosomal fusion in cells. <i>Nature Chemical Biology</i> , 2010 , 6, 324-6	11.7	64
62	Challenges in studying phospholipid signaling. <i>Nature Chemical Biology</i> , 2010 , 6, 473-5	11.7	19
61	Labeling lipids for imaging in fixed cells. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.prot5458	1.2	5
60	Labeling lipids for imaging in live cells. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.prot5459	1.2	5
59	Airway surface liquid volume regulation determines different airway phenotypes in liddle compared with betaENaC-overexpressing mice. <i>Journal of Biological Chemistry</i> , 2010 , 285, 26945-26955	5.4	52
58	Reporters to monitor cellular MMP12 activity 2010 ,		2
57	Imaging lipids in living cells. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.top83	1.2	17
56	Transfection of cells with DNA encoding a visible fluorescent protein-tagged lipid-binding domain. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.prot5457	1.2	4
55	Selektive Fluoreszenzmarkierung von Lipiden in lebenden Zellen. <i>Angewandte Chemie</i> , 2009 , 121, 1526-1529	3.6	46
54	Selective fluorescence labeling of lipids in living cells. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1498-500	16.4	206

53	Membrane-bound FRET probe visualizes MMP12 activity in pulmonary inflammation. <i>Nature Chemical Biology</i> , 2009 , 5, 628-30	11.7	89
52	Fluorescent revelations. <i>Chemistry and Biology</i> , 2009 , 16, 107-11		4
51	Membrane-permeant phosphoinositide derivatives as modulators of growth factor signaling and neurite outgrowth. <i>Chemistry and Biology</i> , 2009 , 16, 1190-6		29
50	Chapter 6 Small molecule-based FRET probes. <i>Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work</i> , 2009 , 33, 225-288		1
49	Heterogeneity and timing of translocation and membrane-mediated assembly of different annexins. <i>Experimental Cell Research</i> , 2008 , 314, 1039-47	4.2	37
48	Simultaneous recording of multiple cellular events by FRET. <i>ACS Chemical Biology</i> , 2008 , 3, 156-60	4.9	106
47	Analysis of protein complex hierarchy in living cells. <i>ACS Chemical Biology</i> , 2008 , 3, 749-55	4.9	13
46	Fluorescence and bioluminescence procedures for functional proteomics. <i>Proteomics</i> , 2008 , 8, 1179-96	4.8	28
45	Contribution of fluorophores to protein kinase C FRET probe performance. <i>ChemBioChem</i> , 2008 , 9, 1379-84	3.8	22
44	Probing lipid- and drug-binding domains with fluorescent dyes. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 1162-73	3.4	23
43	Simultaneous protein tagging in two colors. <i>Chemistry and Biology</i> , 2008 , 15, 91-2		2
42	Probing phospholipase a(2) with fluorescent phospholipid substrates. <i>ChemBioChem</i> , 2007 , 8, 1555-69	3.8	33
41	Molecular tools for cell and systems biology. <i>HFSP Journal</i> , 2007 , 1, 230-48		11
40	Live-cell imaging of enzyme-substrate interaction reveals spatial regulation of PTP1B. <i>Science</i> , 2007 , 315, 115-9	33.3	122
39	Investigation of the ligand spectrum of human sterol carrier protein 2 using a direct mass spectrometry assay. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 461, 50-8	4.1	8
38	Calcium-dependent regulation of NF-(kappa)B activation in cystic fibrosis airway epithelial cells. <i>Cellular Signalling</i> , 2006 , 18, 652-60	4.9	69
37	A small-molecule FRET probe to monitor phospholipase A2 activity in cells and organisms. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 508-12	16.4	50
36	Eine FRET-Sonde zur Messung der Aktivität von Phospholipase A2 in Zellen und Organismen. <i>Angewandte Chemie</i> , 2006 , 118, 522-527	3.6	13

35	Annexin A4 self-association modulates general membrane protein mobility in living cells. <i>Molecular Biology of the Cell</i> , 2006 , 17, 3318-28	3.5	58
34	A dual parameter FRET probe for measuring PKC and PKA activity in living cells. <i>Journal of the American Chemical Society</i> , 2006 , 128, 24-5	16.4	45
33	Single- and dual-parameter FRET kinase probes based on pleckstrin. <i>Nature Protocols</i> , 2006 , 1, 1044-55	18.8	8
32	Cellular uptake of PNA--terpyridine conjugates and its enhancement by Zn ²⁺ ions. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5986-7	16.4	37
31	An Inositol Phosphate Analog, INO-4995, Normalizes Electrophysiology in CF Airway Epithelia 2005 , 115-127		2
30	Multiparameter imaging for the analysis of intracellular signaling. <i>ChemBioChem</i> , 2005 , 6, 1323-30	3.8	45
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27	Versatile reagents to introduce caged phosphates. <i>Tetrahedron Letters</i> , 2003 , 44, 1153-1155	2	25
26	Synthesis of caged myo-inositol 1,3,4,5-tetrakisphosphate. <i>Tetrahedron Letters</i> , 2003 , 44, 1157-1159	2	27
25	Antagonists of myo-inositol 3,4,5,6-tetrakisphosphate allow repeated epithelial chloride secretion. <i>Bioorganic and Medicinal Chemistry</i> , 2003 , 11, 3315-29	3.4	23
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3	Development of Fluorescent Probes for Small Molecules	91-113	
2	A combinatorial extracellular code tunes the intracellular signaling network activity to distinct cellular responses		1
1	Controlling Protein Function by Caged Compounds	140-173	2