

# Klaus M Hahn

## List of Publications by Year in descending order

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148  
papers

14,741  
citations

28736

57  
h-index

23173

116  
g-index

164  
all docs

164  
docs citations

164  
times ranked

19124  
citing authors

#	ARTICLE	IF	CITATIONS
1	A genetically encoded photoactivatable Rac controls the motility of living cells. <i>Nature</i> , 2009, 461, 104-108.	13.7	960
2	Coordination of Rho GTPase activities during cell protrusion. <i>Nature</i> , 2009, 461, 99-103.	13.7	898
3	Spatiotemporal dynamics of RhoA activity in migrating cells. <i>Nature</i> , 2006, 440, 1069-1072.	13.7	734
4	Amiloride inhibits macropinocytosis by lowering submembranous pH and preventing Rac1 and Cdc42 signaling. <i>Journal of Cell Biology</i> , 2010, 188, 547-563.	2.3	731
5	Localized Rac Activation Dynamics Visualized in Living Cells. <i>Science</i> , 2000, 290, 333-337.	6.0	653
6	Labelling and optical erasure of synaptic memory traces in the motor cortex. <i>Nature</i> , 2015, 525, 333-338.	13.7	546
7	An Orally Bioavailable Chemical Probe of the Lysine Methyltransferases EZH2 and EZH1. <i>ACS Chemical Biology</i> , 2013, 8, 1324-1334.	1.6	399
8	Activation of Endogenous Cdc42 Visualized in Living Cells. <i>Science</i> , 2004, 305, 1615-1619.	6.0	370
9	Differential Regulation of Protrusion and Polarity by PI(3)K during Neutrophil Motility in Live Zebrafish. <i>Developmental Cell</i> , 2010, 18, 226-236.	3.1	338
10	Integrins regulate GTP-Rac localized effector interactions through dissociation of Rho-GDI. <i>Nature Cell Biology</i> , 2002, 4, 232-239.	4.6	304
11	Light-mediated activation reveals a key role for Rac in collective guidance of cell movement in vivo. <i>Nature Cell Biology</i> , 2010, 12, 591-597.	4.6	297
12	LOVTRAP: an optogenetic system for photoinduced protein dissociation. <i>Nature Methods</i> , 2016, 13, 755-758.	9.0	267
13	Rho Family Proteins Modulate Rapid Apoptosis Induced by Cytotoxic T Lymphocytes and Fas. <i>Journal of Biological Chemistry</i> , 2000, 275, 9725-9733.	1.6	234
14	Vinculin modulation of paxillinâ€“FAK interactions regulates ERK to control survival and motility. <i>Journal of Cell Biology</i> , 2004, 165, 371-381.	2.3	233
15	Effects of cell tension on the small GTPase Rac. <i>Journal of Cell Biology</i> , 2002, 158, 153-164.	2.3	220
16	Vimentin organization modulates the formation of lamellipodia. <i>Molecular Biology of the Cell</i> , 2011, 22, 1274-1289.	0.9	220
17	GEF-H1 Modulates Localized RhoA Activation during Cytokinesis under the Control of Mitotic Kinases. <i>Developmental Cell</i> , 2007, 12, 699-712.	3.1	197
18	Engineering extrinsic disorder to control protein activity in living cells. <i>Science</i> , 2016, 354, 1441-1444.	6.0	185

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19	Engineered allosteric activation of kinases in living cells. <i>Nature Biotechnology</i> , 2010, 28, 743-747.	9.4	177
20	Designing Photoswitchable Peptides Using the AsLOV2 Domain. <i>Chemistry and Biology</i> , 2012, 19, 507-517.	6.2	176
21	Patterns of elevated free calcium and calmodulin activation in living cells. <i>Nature</i> , 1992, 359, 736-738.	13.7	171
22	Rac1 is essential in cocaine-induced structural plasticity of nucleus accumbens neurons. <i>Nature Neuroscience</i> , 2012, 15, 891-896.	7.1	160
23	Tpr is localized within the nuclear basket of the pore complex and has a role in nuclear protein export. <i>Journal of Cell Biology</i> , 2002, 156, 617-630.	2.3	158
24	Spatial and Temporal Regulation of Focal Adhesion Kinase Activity in Living Cells. <i>Molecular and Cellular Biology</i> , 2008, 28, 201-214.	1.1	157
25	Solvent-Sensitive Dyes to Report Protein Conformational Changes in Living Cells. <i>Journal of the American Chemical Society</i> , 2003, 125, 4132-4145.	6.6	155
26	To stabilize neutrophil polarity, PIP3 and Cdc42 augment RhoA activity at the back as well as signals at the front. <i>Journal of Cell Biology</i> , 2006, 174, 437-445.	2.3	155
27	Localized Tensional Forces on PECAM-1 Elicit a Global Mechanotransduction Response via the Integrin-RhoA Pathway. <i>Current Biology</i> , 2012, 22, 2087-2094.	1.8	153
28	Neutrophil polarization: Spatiotemporal dynamics of RhoA activity support a self-organizing mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3639-3644.	3.3	152
29	Spatial and Temporal Analysis of Rac Activation during Live Neutrophil Chemotaxis. <i>Current Biology</i> , 2002, 12, 2029-2034.	1.8	151
30	High-Resolution Quantification of Focal Adhesion Spatiotemporal Dynamics in Living Cells. <i>PLoS ONE</i> , 2011, 6, e22025.	1.1	145
31	Light Regulation of Protein Dimerization and Kinase Activity in Living Cells Using Photocaged Rapamycin and Engineered FKBP. <i>Journal of the American Chemical Society</i> , 2011, 133, 420-423.	6.6	140
32	A Di-acidic (DXE) Code Directs Concentration of Cargo during Export from the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 1999, 274, 15937-15946.	1.6	139
33	An Autism-Linked Mutation Disables Phosphorylation Control of UBE3A. <i>Cell</i> , 2015, 162, 795-807.	13.5	139
34	Deep learning enables structured illumination microscopy with low light levels and enhanced speed. <i>Nature Communications</i> , 2020, 11, 1934.	5.8	134
35	Imaging the coordination of multiple signalling activities in living cells. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 749-756.	16.1	124
36	External push and internal pull forces recruit curvature-sensing N-BAR domain proteins to the plasma membrane. <i>Nature Cell Biology</i> , 2012, 14, 874-881.	4.6	120

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37	DLC $\beta$ 1 suppresses non-small cell lung cancer growth and invasion by RhoGAP $\beta$ -dependent and independent mechanisms. <i>Molecular Carcinogenesis</i> , 2008, 47, 326-337.	1.3	115
38	Rational design of a ligand-controlled protein conformational switch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6800-6804.	3.3	111
39	Positive feedback between Cdc42 activity and H <sup>+</sup> efflux by the Na-H exchanger NHE1 for polarity of migrating cells. <i>Journal of Cell Biology</i> , 2007, 179, 403-410.	2.3	109
40	Vinculin Controls PTEN Protein Level by Maintaining the Interaction of the Adherens Junction Protein $\beta$ 2-Catenin with the Scaffolding Protein MAGI-2. <i>Journal of Biological Chemistry</i> , 2005, 280, 5676-5681.	1.6	101
41	Biosensors for Characterizing the Dynamics of Rho Family GTPases in Living Cells. <i>Current Protocols in Cell Biology</i> , 2010, 46, Unit 14.11.1-26.	2.3	98
42	Control of Protein Activity and Cell Fate Specification via Light-Mediated Nuclear Translocation. <i>PLoS ONE</i> , 2015, 10, e0128443.	1.1	95
43	Merocyanine Dyes with Improved Photostability. <i>Organic Letters</i> , 2007, 9, 2775-2777.	2.4	93
44	CellGeo: A computational platform for the analysis of shape changes in cells with complex geometries. <i>Journal of Cell Biology</i> , 2014, 204, 443-460.	2.3	93
45	The $\beta$ subunit of AP-3 is required for efficient transport of VSV-G from the trans-Golgi network to the cell surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6755-6760.	3.3	89
46	Light-induced nuclear export reveals rapid dynamics of epigenetic modifications. <i>Nature Chemical Biology</i> , 2016, 12, 399-401.	3.9	89
47	Biosensor Förster resonance energy transfer detection by the phasor approach to fluorescence lifetime imaging microscopy. <i>Microscopy Research and Technique</i> , 2012, 75, 271-281.	1.2	86
48	A Theoretical Study of the UV/Visible Absorption and Emission Solvatochromic Properties of Solvent-Sensitive Dyes. <i>ChemPhysChem</i> , 2003, 4, 1084-1094.	1.0	84
49	Optogenetic approaches to cell migration and beyond. <i>Current Opinion in Cell Biology</i> , 2014, 30, 112-120.	2.6	81
50	RhoA/ROCK-mediated switching between Cdc42- and Rac1-dependent protrusion in MTLn3 carcinoma cells. <i>Experimental Cell Research</i> , 2008, 314, 1540-1552.	1.2	79
51	CTL Escape Viral Variants. <i>Virology</i> , 1995, 210, 29-40.	1.1	77
52	Computational design of chemogenetic and optogenetic split proteins. <i>Nature Communications</i> , 2018, 9, 4042.	5.8	75
53	Millisecond spatiotemporal dynamics of FRET biosensors by the pair correlation function and the phasor approach to FLIM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 135-140.	3.3	74
54	A Biosensor of S100A4 Metastasis Factor Activation: Inhibitor Screening and Cellular Activation Dynamics. <i>Biochemistry</i> , 2008, 47, 986-996.	1.2	72

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55	A biosensor generated via high-throughput screening quantifies cell edge Src dynamics. <i>Nature Chemical Biology</i> , 2011, 7, 437-444.	3.9	72
56	Local control of intracellular microtubule dynamics by EB1 photodissociation. <i>Nature Cell Biology</i> , 2018, 20, 252-261.	4.6	70
57	Manipulation of Endogenous Kinase Activity in Living Cells Using Photoswitchable Inhibitory Peptides. <i>ACS Synthetic Biology</i> , 2014, 3, 788-795.	1.9	64
58	Environment-Sensing Merocyanine Dyes for Live Cell Imaging Applications. <i>Bioconjugate Chemistry</i> , 2013, 24, 215-223.	1.8	63
59	Discovery of long-range inhibitory signaling to ensure single axon formation. <i>Nature Communications</i> , 2017, 8, 33.	5.8	61
60	Laser-scanning velocimetry: A confocal microscopy method for quantitative measurement of cardiovascular performance in zebrafish embryos and larvae. <i>BMC Biotechnology</i> , 2007, 7, 40.	1.7	58
61	Watching Proteins in the Wild: Fluorescence Methods to Study Protein Dynamics in Living Cells. <i>Traffic</i> , 2000, 1, 755-762.	1.3	56
62	Design and Optimization of Genetically Encoded Fluorescent Biosensors: GTPase Biosensors. <i>Methods in Cell Biology</i> , 2008, 85, 63-81.	0.5	53
63	Matrix Valency Regulates Integrin-mediated Lymphoid Adhesion via Syk Kinase. <i>Journal of Cell Biology</i> , 1999, 144, 777-788.	2.3	52
64	GÅi3 binding to calnuc on Golgi membranes in living cells monitored by fluorescence resonance energy transfer of green fluorescent protein fusion proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 14961-14966.	3.3	52
65	Single-Molecule Study of Protein-Protein Interaction Dynamics in a Cell Signaling System. <i>Journal of Physical Chemistry B</i> , 2004, 108, 737-744.	1.2	51
66	Spatiotemporal Control of Small GTPases with Light Using the LOV Domain. <i>Methods in Enzymology</i> , 2011, 497, 393-407.	0.4	49
67	Knowledge-Based Design of a Biosensor to Quantify Localized ERK Activation in Living Cells. <i>Chemistry and Biology</i> , 2013, 20, 847-856.	6.2	49
68	Engineered kinase activation reveals unique morphodynamic phenotypes and associated trafficking for Src family isoforms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12420-12425.	3.3	47
69	Imaging and Photobleach Correction of Mero-CBD, Sensor of Endogenous Cdc42 Activation. <i>Methods in Enzymology</i> , 2006, 406, 140-156.	0.4	46
70	Engineering proteins for allosteric control by light or ligands. <i>Nature Protocols</i> , 2019, 14, 1863-1883.	5.5	46
71	Live-cell fluorescent biosensors for activated signaling proteins. <i>Current Opinion in Cell Biology</i> , 2002, 14, 167-172.	2.6	45
72	Density Functional Vertical Self-Consistent Reaction Field Theory for Solvatochromism Studies of Solvent-Sensitive Dyes. <i>Journal of Physical Chemistry A</i> , 2004, 108, 3545-3555.	1.1	45

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73	FRET binding antenna reports spatiotemporal dynamics of GDI-Cdc42 GTPase interactions. <i>Nature Chemical Biology</i> , 2016, 12, 802-809.	3.9	45
74	STEF/TIAM2-mediated Rac1 activity at the nuclear envelope regulates the perinuclear actin cap. <i>Nature Communications</i> , 2018, 9, 2124.	5.8	45
75	Dissecting motility signaling through activation of specific Src-effector complexes. <i>Nature Chemical Biology</i> , 2014, 10, 286-290.	3.9	44
76	PB1 Domain-Dependent Signaling Complex Is Required for Extracellular Signal-Regulated Kinase 5 Activation. <i>Molecular and Cellular Biology</i> , 2006, 26, 2065-2079.	1.1	43
77	Functional redundancy between RAP1 isoforms in murine platelet production and function. <i>Blood</i> , 2018, 132, 1951-1962.	0.6	43
78	Cdc42 is required for EGF-stimulated protrusion and motility in MTLn3 carcinoma cells. <i>Journal of Cell Science</i> , 2007, 120, 3465-3474.	1.2	41
79	Combining Surface Chemistry with a FRET-Based Biosensor to Study the Dynamics of RhoA GTPase Activation in Cells on Patterned Substrates. <i>Journal of the American Chemical Society</i> , 2007, 129, 9264-9265.	6.6	40
80	A RhoC Biosensor Reveals Differences in the Activation Kinetics of RhoA and RhoC in Migrating Cells. <i>PLoS ONE</i> , 2013, 8, e79877.	1.1	40
81	Coordination by Cdc42 of Actin, Contractility, and Adhesion for Melanoblast Movement in Mouse Skin. <i>Current Biology</i> , 2017, 27, 624-637.	1.8	38
82	Spatiotemporal dynamics of GEF-H1 activation controlled by microtubule- and Src-mediated pathways. <i>Journal of Cell Biology</i> , 2019, 218, 3077-3097.	2.3	38
83	Imaging spatiotemporal dynamics of Rac activation in vivo with FLAIR. <i>Methods in Enzymology</i> , 2000, 325, 389-400.	0.4	37
84	Endogenous RhoG Is Rapidly Activated after Epidermal Growth Factor Stimulation through Multiple Guanine-Nucleotide Exchange Factors. <i>Molecular Biology of the Cell</i> , 2010, 21, 1629-1642.	0.9	36
85	An optogenetic tool for the activation of endogenous diaphanous-related formins induces thickening of stress fibers without an increase in contractility. <i>Cytoskeleton</i> , 2013, 70, 394-407.	1.0	36
86	Optogenetic control of cofilin and F-actin in living cells using Z-lock. <i>Nature Chemical Biology</i> , 2019, 15, 1183-1190.	3.9	36
87	Visualizing and quantifying adhesive signals. <i>Current Opinion in Cell Biology</i> , 2008, 20, 541-550.	2.6	35
88	High Rac1 activity is functionally translated into cytosolic structures with unique nanoscale cytoskeletal architecture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1267-1272.	3.3	35
89	p190RhoGAP negatively regulates Rho activity at the cleavage furrow of mitotic cells. <i>Experimental Cell Research</i> , 2009, 315, 1347-1359.	1.2	34
90	Profiling cellular morphodynamics by spatiotemporal spectrum decomposition. <i>PLoS Computational Biology</i> , 2018, 14, e1006321.	1.5	34

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91	Digital Autofocus Methods for Automated Microscopy. <i>Methods in Enzymology</i> , 2006, 414, 620-632.	0.4	33
92	RhoA GTPase Activation by TLR2 and TLR3 Ligands: Connecting via Src to NF- $\kappa$ B. <i>Journal of Immunology</i> , 2009, 182, 3522-3529.	0.4	32
93	Software for lattice light-sheet imaging of FRET biosensors, illustrated with a new Rap1 biosensor. <i>Journal of Cell Biology</i> , 2019, 218, 3153-3160.	2.3	32
94	Facile Synthesis of Thiol-Reactive Cy3 and Cy5 Derivatives with Enhanced Water Solubility. <i>Bioconjugate Chemistry</i> , 2002, 13, 387-391.	1.8	31
95	Functional proteometrics for cell migration. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2006, 69A, 563-572.	1.1	30
96	The regulation of RhoA at focal adhesions by StarD13 is important for astrocytoma cell motility. <i>Experimental Cell Research</i> , 2014, 321, 109-122.	1.2	30
97	Combined Atomic Force Microscope and Volumetric Light Sheet System for Correlative Force and Fluorescence Mechanobiology Studies. <i>Scientific Reports</i> , 2020, 10, 8133.	1.6	29
98	The Guanine-Nucleotide Exchange Factor SGEF Plays a Crucial Role in the Formation of Atherosclerosis. <i>PLoS ONE</i> , 2013, 8, e55202.	1.1	28
99	Membrane-Permeant, Environment-Sensitive Dyes Generate Biosensors within Living Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 7275-7282.	6.6	28
100	PLEKHG3 enhances polarized cell migration by activating actin filaments at the cell front. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10091-10096.	3.3	27
101	Antiapoptotic Cdc42 Mutants Are Potent Activators of Cellular Transformation. <i>Biochemistry</i> , 2002, 41, 12350-12358.	1.2	26
102	Engineering Pak1 Allosteric Switches. <i>ACS Synthetic Biology</i> , 2017, 6, 1257-1262.	1.9	26
103	An RNAi screen of Rho signalling networks identifies RhoH as a regulator of Rac1 in prostate cancer cell migration. <i>BMC Biology</i> , 2018, 16, 29.	1.7	26
104	Experimental and DFT Studies: A Novel Structural Modifications Greatly Enhance the Solvent Sensitivity of Live Cell Imaging Dyes. <i>Journal of Physical Chemistry A</i> , 2007, 111, 10849-10860.	1.1	25
105	Controlling protein conformation with light. <i>Current Opinion in Structural Biology</i> , 2019, 57, 17-22.	2.6	25
106	Multiplexed GTPase and GEF biosensor imaging enables network connectivity analysis. <i>Nature Chemical Biology</i> , 2020, 16, 826-833.	3.9	25
107	Simple One-Pot Preparation of Water-Soluble, Cysteine-Reactive Cyanine and Merocyanine Dyes for Biological Imaging. <i>Bioconjugate Chemistry</i> , 2007, 18, 1344-1348.	1.8	24
108	A Highly Efficient Method for Site-Specific Modification of Unprotected Peptides after Chemical Synthesis. <i>Journal of the American Chemical Society</i> , 2000, 122, 3567-3573.	6.6	23

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109	Fluctuation-based imaging of nuclear Rac1 activation by protein oligomerisation. <i>Scientific Reports</i> , 2014, 4, 4219.	1.6	23
110	Ratiometric Imaging Using a Single Dye Enables Simultaneous Visualization of Rac1 and Cdc42 Activation. <i>Journal of the American Chemical Society</i> , 2016, 138, 2571-2575.	6.6	23
111	Fluctuation Analysis of Activity Biosensor Images for the Study of Information Flow in Signaling Pathways. <i>Methods in Enzymology</i> , 2013, 519, 253-276.	0.4	22
112	Force-exerting perpendicular lateral protrusions in fibroblastic cell contraction. <i>Communications Biology</i> , 2020, 3, 390.	2.0	22
113	Antigen Presentation and Cytotoxic T Lymphocyte Killing Studied in Individual, Living Cells. <i>Virology</i> , 1994, 201, 330-340.	1.1	20
114	LOVTRAP: A Versatile Method to Control Protein Function with Light. <i>Current Protocols in Cell Biology</i> , 2016, 73, 21.10.1-21.10.14.	2.3	20
115	Spatial analysis of Cdc42 activity reveals a role for plasma membrane-associated Cdc42 in centrosome regulation. <i>Molecular Biology of the Cell</i> , 2017, 28, 2135-2145.	0.9	19
116	Regulation of local GTP availability controls RAC1 activity and cell invasion. <i>Nature Communications</i> , 2021, 12, 6091.	5.8	17
117	An optogenetic method for interrogating YAP1 and TAZ nuclear cytoplasmic shuttling. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	16
118	User-friendly tools for quantifying the dynamics of cellular morphology and intracellular protein clusters. <i>Methods in Cell Biology</i> , 2014, 123, 409-427.	0.5	15
119	Light-Dependent Cytoplasmic Recruitment Enhances the Dynamic Range of a Nuclear Import Photoswitch. <i>ChemBioChem</i> , 2018, 19, 1319-1325.	1.3	15
120	VIEW-MOD: a versatile illumination engine with a modular optical design for fluorescence microscopy. <i>Optics Express</i> , 2019, 27, 19950.	1.7	15
121	Biosensors based on peptide exposure show single molecule conformations in live cells. <i>Cell</i> , 2021, 184, 5670-5685.e23.	13.5	15
122	Fluorescent Indicators of Peptide Cleavage in the Trafficking Compartments of Living Cells: Peptides Site-Specifically Labeled with Two Dyes. <i>Methods</i> , 2000, 20, 429-435.	1.9	14
123	Allosteric Activation of Kinases: Design and Application of RapR Kinases. <i>Current Protocols in Cell Biology</i> , 2011, 53, Unit 14.13..	2.3	14
124	A High-Content Assay for Biosensor Validation and for Examining Stimuli that Affect Biosensor Activity. <i>Current Protocols in Cell Biology</i> , 2014, 65, 14.15.1-31.	2.3	13
125	A Cdc42-mediated supracellular network drives polarized forces and <i>Drosophila</i> egg chamber extension. <i>Nature Communications</i> , 2020, 11, 1921.	5.8	13
126	Characterization of Morphological and Cytoskeletal Changes in MCF10A Breast Epithelial Cells Plated on Laminin-5: Comparison with Breast Cancer Cell Line MCF7. <i>Cell Communication and Adhesion</i> , 2001, 8, 29-44.	1.0	12



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127	A novel fluorescent sensor protein for detecting changes in airway surface liquid glucose concentration. <i>Biochemical Journal</i> , 2014, 464, 213-220.	1.7	12
128	SYNTHESIS AND EVALUATION OF 2-DIAZO-3,3,3-TRIFLUOROPROPANOYL DERIVATIVES OF COLCHICINE AND PODOPHYLLOTOXIN AS PHOTOAFFINITY LABELS: REACTIVITY, PHOTOCHEMISTRY, AND TUBULIN BINDING. <i>Photochemistry and Photobiology</i> , 1992, 55, 17-27.	1.3	11
129	Redesign of the PAK1 Autoinhibitory Domain for Enhanced Stability and Affinity in Biosensor Applications. <i>Journal of Molecular Biology</i> , 2011, 413, 513-522.	2.0	10
130	Epigallocatechin gallate has pleiotropic effects on transmembrane signaling by altering the embedding of transmembrane domains. <i>Journal of Biological Chemistry</i> , 2017, 292, 9858-9864.	1.6	9
131	Structural requirements for the binding of colchicine analogs to tubulin: the role of the C-10 substituent. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1991, 1, 471-476.	1.0	7
132	Digital differential interference contrast autofocus for high-resolution oil-immersion microscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 658-666.	1.1	7
133	A Catalytic Antibody Produces Fluorescent Tracers of Gap Junction Communication in Living Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 49164-49168.	1.6	6
134	A Computational Protocol for Regulating Protein Binding Reactions with a Light-Sensitive Protein Dimer. <i>Journal of Molecular Biology</i> , 2020, 432, 805-814.	2.0	6
135	Characterization of an Engineered Src Kinase to Study Src Signaling and Biology. <i>Methods in Molecular Biology</i> , 2016, 1360, 157-167.	0.4	6
136	EdgeProps: A Computational Platform for Correlative Analysis of Cell Dynamics and Near-Edge Protein Activity. <i>Methods in Molecular Biology</i> , 2018, 1821, 47-56.	0.4	6
137	Patterning pallet arrays for cell selection based on high-resolution measurements of fluorescent biosensors. <i>Analytica Chimica Acta</i> , 2011, 696, 101-107.	2.6	5
138	Automated line scan analysis to quantify biosensor activity at the cell edge. <i>Methods</i> , 2014, 66, 162-167.	1.9	5
139	A photocross-linking fluorescent indicator of mitochondrial membrane potential.. <i>Journal of Histochemistry and Cytochemistry</i> , 1993, 41, 631-634.	1.3	4
140	Correcting Artifacts in Ratiometric Biosensor Imaging; an Improved Approach for Dividing Noisy Signals. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 685825.	1.8	4
141	Imaging Africa: a strategic approach to optical microscopy training in Africa. <i>Nature Methods</i> , 2021, 18, 847-855.	9.0	4
142	A multi-functional microfluidic device compatible with widefield and light sheet microscopy. <i>Lab on A Chip</i> , 2021, 22, 136-147.	3.1	4
143	Monitoring Signaling Processes in Living Cells Using Biosensors. <i>Science Signaling</i> , 2003, 2003, tr5-tr5.	1.6	3
144	PKC $\delta$ -mediated serine/threonine phosphorylations of FAK govern adhesion and protrusion dynamics within the lamellipodia of migrating breast cancer cells. <i>Cancer Letters</i> , 2022, 526, 112-130.	3.2	3

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145	A stable diazo photoaffinity label with high absorptivity and effective photoactivation beyond 300 nm. Analytical Biochemistry, 1991, 196, 271-278.	1.1	2
146	A long-wavelength biolabeling reagent based on the oxonol fluorophore. Journal of Fluorescence, 1995, 5, 231-235.	1.3	2
147	Stochastic Methods for Inferring States of Cell Migration. Frontiers in Physiology, 2020, 11, 822.	1.3	1
148	Engineering Optogenetic Protein Analogs. Methods in Molecular Biology, 2020, 2173, 113-126.	0.4	0