

Joachim Goedhart

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

6,930
citations

93792

39
h-index

81351

76
g-index

120
all docs

120
docs citations

120
times ranked

10879
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-guided evolution of cyan fluorescent proteins towards a quantum yield of 93%. <i>Nature Communications</i> , 2012, 3, 751.	5.8	626
2	Bright monomeric red fluorescent protein with an extended fluorescence lifetime. <i>Nature Methods</i> , 2007, 4, 555-557.	9.0	582
3	PlotsOfData – A web app for visualizing data together with their summaries. <i>PLoS Biology</i> , 2019, 17, e3000202.	2.6	443
4	Cyan and Yellow Super Fluorescent Proteins with Improved Brightness, Protein Folding, and FRET Förster Radius. <i>Biochemistry</i> , 2006, 45, 6570-6580.	1.2	441
5	VolcanoR is a web app for creating, exploring, labeling and sharing volcano plots. <i>Scientific Reports</i> , 2020, 10, 20560.	1.6	301
6	Bright cyan fluorescent protein variants identified by fluorescence lifetime screening. <i>Nature Methods</i> , 2010, 7, 137-139.	9.0	258
7	Fourth-Generation Epac-Based FRET Sensors for cAMP Feature Exceptional Brightness, Photostability and Dynamic Range: Characterization of Dedicated Sensors for FLIM, for Ratiometry and with High Affinity. <i>PLoS ONE</i> , 2015, 10, e0122513.	1.1	230
8	Phospholipase D Activation Correlates with Microtubule Reorganization in Living Plant Cells [W]. <i>Plant Cell</i> , 2003, 15, 2666-2679.	3.1	225
9	Imaging phosphatidylinositol 4-phosphate dynamics in living plant cells. <i>Plant Journal</i> , 2009, 57, 356-372.	2.8	189
10	A mTurquoise-Based cAMP Sensor for Both FLIM and Ratiometric Read-Out Has Improved Dynamic Range. <i>PLoS ONE</i> , 2011, 6, e19170.	1.1	172
11	Improved Green and Blue Fluorescent Proteins for Expression in Bacteria and Mammalian Cells. <i>Biochemistry</i> , 2007, 46, 3775-3783.	1.2	132
12	In vivo FRET-FLIM reveals cell-type-specific protein interactions in Arabidopsis roots. <i>Nature</i> , 2017, 548, 97-102.	13.7	128
13	The DNAJB6 and DNAJB8 Protein Chaperones Prevent Intracellular Aggregation of Polyglutamine Peptides. <i>Journal of Biological Chemistry</i> , 2013, 288, 17225-17237.	1.6	122
14	Stochastic and reversible assembly of a multiprotein DNA repair complex ensures accurate target site recognition and efficient repair. <i>Journal of Cell Biology</i> , 2010, 189, 445-463.	2.3	114
15	Plant G protein heterotrimer requires dual lipidation motifs of G α and G β and does not dissociate upon activation. <i>Journal of Cell Science</i> , 2006, 119, 5087-5097.	1.2	113
16	F-actin-rich contractile endothelial pores prevent vascular leakage during leukocyte diapedesis through local RhoA signalling. <i>Nature Communications</i> , 2016, 7, 10493.	5.8	113
17	High-Resolution mRNA and Secretome Atlas of Human Enteroendocrine Cells. <i>Cell</i> , 2020, 181, 1291-1306.e19.	13.5	110
18	Uniform cAMP Stimulation of Dictyostelium Cells Induces Localized Patches of Signal Transduction and Pseudopodia. <i>Molecular Biology of the Cell</i> , 2003, 14, 5019-5027.	0.9	98

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19	SuperPlotsOfDataâ€”a web app for the transparent display and quantitative comparison of continuous data from different conditions. <i>Molecular Biology of the Cell</i> , 2021, 32, 470-474.	0.9	97
20	Sensitization of Dictyostelium chemotaxis by phosphoinositide-3-kinase-mediated self-organizing signalling patches. <i>Journal of Cell Science</i> , 2004, 117, 2925-2935.	1.2	95
21	Dynamic in vivo interaction of DDB2 E3 ubiquitin ligase with UV-damaged DNA is independent of damage-recognition protein XPC. <i>Journal of Cell Science</i> , 2007, 120, 2706-2716.	1.2	95
22	Practical and reliable FRET/FLIM pair of fluorescent proteins. <i>BMC Biotechnology</i> , 2009, 9, 24.	1.7	93
23	The cooperative action of CSB, CSA, and UVSSA target TFIIH to DNA damage-stalled RNA polymerase II. <i>Nature Communications</i> , 2020, 11, 2104.	5.8	91
24	PKC δ mutations in spinocerebellar ataxia type 14 affect C1 domain accessibility and kinase activity leading to aberrant MAPK signaling. <i>Journal of Cell Science</i> , 2008, 121, 2339-2349.	1.2	87
25	Real-time visualization of heterotrimeric G protein Gq activation in living cells. <i>BMC Biology</i> , 2011, 9, 32.	1.7	83
26	A local VE-cadherin/Trio-based signaling complex stabilizes endothelial junctions through Rac1. <i>Journal of Cell Science</i> , 2015, 128, 3041-54.	1.2	82
27	Plasma membrane restricted RhoGEF activity is sufficient for RhoA-mediated actin polymerization. <i>Scientific Reports</i> , 2015, 5, 14693.	1.6	81
28	Sensitive Detection of p65 Homodimers Using Red-Shifted and Fluorescent Protein-Based FRET Couples. <i>PLoS ONE</i> , 2007, 2, e1011.	1.1	80
29	Characterization of a spectrally diverse set of fluorescent proteins as FRET acceptors for mTurquoise2. <i>Scientific Reports</i> , 2017, 7, 11999.	1.6	77
30	In vivo characterisation of fluorescent proteins in budding yeast. <i>Scientific Reports</i> , 2019, 9, 2234.	1.6	71
31	Structure of a fluorescent protein from <i>Aequorea victoria</i> bearing the obligate-monomer mutation A206K. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 878-882.	0.7	63
32	In vivo fluorescence correlation microscopy (FCM) reveals accumulation and immobilization of Nod factors in root hair cell walls. <i>Plant Journal</i> , 2000, 21, 109-119.	2.8	61
33	Quantitative Co-Expression of Proteins at the Single Cell Level â€” Application to a Multimeric FRET Sensor. <i>PLoS ONE</i> , 2011, 6, e27321.	1.1	59
34	The balance between G β ₁ -Cdc42/Rac and G β ₁ ₂ / ₃ -RhoA pathways determines endothelial barrier regulation by sphingosine-1-phosphate. <i>Molecular Biology of the Cell</i> , 2017, 28, 3371-3382.	0.9	57
35	PlotTwist: A web app for plotting and annotating continuous data. <i>PLoS Biology</i> , 2020, 18, e3000581.	2.6	53
36	<sc>SCARECROW</sc>â€”<sc>LIKE</sc>23 and <sc>SCARECROW</sc> jointly specify endodermal cell fate but distinctly control <sc>SHORT</sc>â€”<sc>ROOT</sc> movement. <i>Plant Journal</i> , 2015, 84, 773-784.	2.8	52

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37	Spatiotemporal analysis of RhoA/B/C activation in primary human endothelial cells. <i>Scientific Reports</i> , 2016, 6, 25502.	1.6	51
38	A New Generation of FRET Sensors for Robust Measurement of G α 1, G α 2 and G α 3 Activation Kinetics in Single Cells. <i>PLoS ONE</i> , 2016, 11, e0146789.	1.1	50
39	Quantitative Lifetime Unmixing of Multiexponentially Decaying Fluorophores Using Single-Frequency Fluorescence Lifetime Imaging Microscopy. <i>Biophysical Journal</i> , 2008, 95, 378-389.	0.2	48
40	siFLIM: single-image frequency-domain FLIM provides fast and photon-efficient lifetime data. <i>Nature Methods</i> , 2016, 13, 501-504.	9.0	48
41	Multiparameter Imaging for the Analysis of Intracellular Signaling. <i>ChemBioChem</i> , 2005, 6, 1323-1330.	1.3	46
42	Sensing Extracellular Calcium – An Insight into the Structure and Function of the Calcium-Sensing Receptor (CaSR). <i>Advances in Experimental Medicine and Biology</i> , 2020, 1131, 1031-1063.	0.8	40
43	Effect of fixation procedures on the fluorescence lifetimes of <i>Aequorea victoria</i> derived fluorescent proteins. <i>Journal of Microscopy</i> , 2014, 256, 166-176.	0.8	35
44	Tetraspanin microdomains control localized protein kinase C signaling in B cells. <i>Science Signaling</i> , 2017, 10, .	1.6	35
45	In Vivo Imaging of Diacylglycerol at the Cytoplasmic Leaflet of Plant Membranes. <i>Plant and Cell Physiology</i> , 2017, 58, 1196-1207.	1.5	33
46	Superfolder mTurquoise2 ^{ox} optimized for the bacterial periplasm allows high efficiency <i>in vivo</i> FRET of cell division antibiotic targets. <i>Molecular Microbiology</i> , 2019, 111, 1025-1038.	1.2	33
47	A turquoise fluorescence lifetime-based biosensor for quantitative imaging of intracellular calcium. <i>Nature Communications</i> , 2021, 12, 7159.	5.8	33
48	Development of FRET biosensors for mammalian and plant systems. <i>Protoplasma</i> , 2014, 251, 333-347.	1.0	31
49	Nod Factors Integrate Spontaneously in Biomembranes and Transfer Rapidly between Membranes and to Root Hairs, but Transbilayer Flip-Flop Does Not Occur. <i>Biochemistry</i> , 1999, 38, 10898-10907.	1.2	30
50	Visualizing endogenous Rho activity with an improved localization-based, genetically encoded biosensor. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	30
51	A Perspective on Studying G-Protein-Coupled Receptor Signaling with Resonance Energy Transfer Biosensors in Living Organisms. <i>Molecular Pharmacology</i> , 2015, 88, 589-595.	1.0	28
52	PLC β 2 isoforms differ in their subcellular location and their CT-domain dependent interaction with G α q. <i>Cellular Signalling</i> , 2013, 25, 255-263.	1.7	27
53	Photolysis of Caged Phosphatidic Acid Induces Flagellar Excision in <i>Chlamydomonas</i> . <i>Biochemistry</i> , 2004, 43, 4263-4271.	1.2	25
54	Quantitative Single-Cell Analysis of Signaling Pathways Activated Immediately Downstream of Histamine Receptor Subtypes. <i>Molecular Pharmacology</i> , 2016, 90, 162-176.	1.0	23

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55	Optimizing FRET-FLIM Labeling Conditions to Detect Nuclear Protein Interactions at Native Expression Levels in Living Arabidopsis Roots. <i>Frontiers in Plant Science</i> , 2018, 9, 639.	1.7	21
56	Endothelial junctional membrane protrusions serve as hotspots for neutrophil transmigration. <i>ELife</i> , 2021, 10, .	2.8	20
57	Identical Accumulation and Immobilization of Sulfated and Nonsulfated Nod Factors in Host and Nonhost Root Hair Cell Walls. <i>Molecular Plant-Microbe Interactions</i> , 2003, 16, 884-892.	1.4	19
58	Kinetics of recruitment and allosteric activation of ARHGEF25 isoforms by the heterotrimeric G-protein G β q. <i>Scientific Reports</i> , 2016, 6, 36825.	1.6	19
59	Regulation of PLC β 1a membrane anchoring by its substrate phosphatidylinositol (4,5)-bisphosphate. <i>Journal of Cell Science</i> , 2008, 121, 3770-3777.	1.2	18
60	A FRET-based biosensor for measuring G β 13 activation in single cells. <i>PLoS ONE</i> , 2018, 13, e0193705.	1.1	18
61	Imaging Lipids in Living Cells. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.top83.	0.2	17
62	Identification of guanine nucleotide exchange factors that increase Cdc42 activity in primary human endothelial cells. <i>Small GTPases</i> , 2021, 12, 226-240.	0.7	17
63	Signaling efficiency of G β q through its effectors p63RhoGEF and GEFT depends on their subcellular location. <i>Scientific Reports</i> , 2013, 3, 2284.	1.6	14
64	Chapter 5 Visible fluorescent proteins for FRET. <i>Laboratory Techniques in Biochemistry and Molecular Biology</i> / Edited By T S Work [and] E Work, 2009, 33, 171-223.	0.2	13
65	Forward genetic screens identify a role for the mitochondrial HER2 in E-2-hexenal responsiveness. <i>Plant Molecular Biology</i> , 2017, 95, 399-409.	2.0	12
66	Physical biology of GPCR signalling dynamics inferred from fluorescence spectroscopy and imaging. <i>Current Opinion in Structural Biology</i> , 2019, 55, 204-211.	2.6	12
67	A yeast FRET biosensor enlightens cAMP signaling. <i>Molecular Biology of the Cell</i> , 2021, 32, 1229-1240.	0.9	12
68	BA-plotterR “ A web tool for generating Bland-Altman plots and constructing limits of agreement. <i>Research in Veterinary Science</i> , 2021, 137, 281-286.	0.9	12
69	Single-cell imaging of ERK and Akt activation dynamics and heterogeneity induced by G-protein-coupled receptors. <i>Journal of Cell Science</i> , 2022, 135, .	1.2	12
70	Analysis of oligonucleotide annealing by electrophoresis in agarose gels using sodium borate conductive medium. <i>Analytical Biochemistry</i> , 2005, 343, 186-187.	1.1	11
71	Optimization of Fluorescent Proteins. <i>Methods in Molecular Biology</i> , 2014, 1076, 371-417.	0.4	11
72	<sc>SCA</sc>14 mutation V138E leads to partly unfolded <sc>PKC</sc> β 3 associated with an exposed C-terminus, altered kinetics, phosphorylation and enhanced insolubilization. <i>Journal of Neurochemistry</i> , 2014, 128, 741-751.	2.1	8

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73	Fluorescence resonance energy transfer imaging of PKC signalling in living cells using genetically encoded fluorescent probes. <i>Journal of the Royal Society Interface</i> , 2009, 6, .	1.5	7
74	Domain analysis of the <i>Nematostella vectensis</i> SNAIL ortholog reveals unique nucleolar localization that depends on the zinc-finger domains. <i>Scientific Reports</i> , 2015, 5, 12147.	1.6	6
75	Molecular perturbation strategies to examine spatiotemporal features of Rho GEF and Rho GTPase activity in living cells. <i>Small GTPases</i> , 2019, 10, 178-186.	0.7	6
76	Endothelial Focal Adhesions Are Functional Obstacles for Leukocytes During Basolateral Crawling. <i>Frontiers in Immunology</i> , 2021, 12, 667213.	2.2	6
77	The C-terminus of the oncoprotein TGAT is necessary for plasma membrane association and efficient RhoA-mediated signaling. <i>BMC Cell Biology</i> , 2018, 19, 6.	3.0	5
78	The anti-apoptotic activity associated with phosphatidylinositol transfer protein $\hat{1}\pm$ activates the MAPK and Akt/PKB pathway. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 1700-1706.	1.9	4
79	Transfection of Cells with DNA Encoding a Visible Fluorescent Protein-Tagged Lipid-Binding Domain. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5457.	0.2	4
80	HI-NESS: a family of genetically encoded DNA labels based on a bacterial nucleoid-associated protein. <i>Nucleic Acids Research</i> , 2022, 50, e10-e10.	6.5	4
81	Dispense with redundant P values. <i>Nature</i> , 2018, 554, 31-31.	13.7	4
82	Visualizing and Quantifying Data from Time-Lapse Imaging Experiments. <i>Methods in Molecular Biology</i> , 2022, 2440, 329-348.	0.4	3
83	Not So Dry After All: DRY Mutants of the AT1 $\langle\text{sub}\rangle\text{A}\langle\text{sub}\rangle$ Receptor and H1 Receptor Can Induce G-Protein-Dependent Signaling. <i>ACS Omega</i> , 2020, 5, 2648-2659.	1.6	2
84	Imaging of Genetically Encoded FRET-Based Biosensors to Detect GPCR Activity. <i>Methods in Molecular Biology</i> , 2021, 2268, 159-178.	0.4	1
85	Rapid Colorimetric Quantification of Lipo-chitooligosaccharides from <i>Mesorhizobium loti</i> and <i>Sinorhizobium meliloti</i> . <i>Molecular Plant-Microbe Interactions</i> , 2002, 15, 859-865.	1.4	0
86	Engineering of Optimized Fluorescent Proteins: An Overview from a Cyan and FRET Perspective. <i>Series in Cellular and Clinical Imaging</i> , 2015, , 3-32.	0.2	0
87	A local VE-cadherin and Trio-based signaling complex stabilizes endothelial junctions through Rac1. <i>Development (Cambridge)</i> , 2015, 142, e1.2-e1.2.	1.2	0
88	PlotXpress, a webtool for normalization and visualization of reporter expression data. <i>F1000Research</i> , 2021, 10, 1125.	0.8	0