Matthias Peter

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3429947/publications.pdf

Version: 2024-02-01

70	8,599	94433 37	82547 72
papers	citations	h-index	g-index

85	85	85	17001
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
2	Protein neddylation: beyond cullinâ€“RING ligases. Nature Reviews Molecular Cell Biology, 2015, 16, 30-44.	37.0	417
3	A mechanism for the suppression of homologous recombination in G1 cells. Nature, 2015, 528, 422-426.	27.8	409
4	Cullin-based ubiquitin ligases: Cul3â€“BTB complexes join the family. EMBO Journal, 2004, 23, 1681-1687.	7.8	350
5	Early Steps in Autophagy Depend on Direct Phosphorylation of Atg9 by the Atg1 Kinase. Molecular Cell, 2014, 53, 471-483.	9.7	274
6	Cytosolic pH is a second messenger for glucose and regulates the PKA pathway through V-ATPase. EMBO Journal, 2010, 29, 2515-2526.	7.8	257
7	Binding of the Atg1/ULK1 kinase to the ubiquitin-like protein Atg8 regulates autophagy. EMBO Journal, 2012, 31, 3691-3703.	7.8	237
8	A Cul3-Based E3 Ligase Removes Aurora B from Mitotic Chromosomes, Regulating Mitotic Progression and Completion of Cytokinesis in Human Cells. Developmental Cell, 2007, 12, 887-900.	7.0	191
9	Structural Basis for a Reciprocal Regulation between SCF and CSN. Cell Reports, 2012, 2, 616-627.	6.4	145
10	Opposing effects of cancer-type-specific SPOP mutants on BET protein degradation and sensitivity to BET inhibitors. Nature Medicine, 2017, 23, 1046-1054.	30.7	145
11	Phosphorylation of the MEKK Ste11p by the PAK-like kinase Ste20p is required for MAP kinase signaling in vivo. Current Biology, 2000, 10, 630-639.	3.9	144
12	Reversible protein aggregation is a protective mechanism to ensure cell cycle restart after stress. Nature Cell Biology, 2017, 19, 1202-1213.	10.3	136
13	Transient Activation of the HOG MAPK Pathway Regulates Bimodal Gene Expression. Science, 2011, 332, 732-735.	12.6	134
14	Scalable inference of heterogeneous reaction kinetics from pooled single-cell recordings. Nature Methods, 2014, 11, 197-202.	19.0	131
15	Substrate recognition in selective autophagy and the ubiquitinâ€“proteasome system. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 163-181.	4.1	130
16	Functional mapping of yeast genomes by saturated transposition. ELife, 2017, 6, .	6.0	126
17	Cytosolic pH Regulates Cell Growth through Distinct GTPases, Arf1 and Gtr1, to Promote Ras/PKA and TORC1 Activity. Molecular Cell, 2014, 55, 409-421.	9.7	121
18	The Cul3â€“KLHL21 E3 ubiquitin ligase targets Aurora B to midzone microtubules in anaphase and is required for cytokinesis. Journal of Cell Biology, 2009, 187, 791-800.	5.2	119

#	Article	IF	Citations
19	Rtt101 and Mms1 in budding yeast form a CUL4^{DDB1}â€like ubiquitin ligase that promotes replication through damaged DNA. EMBO Reports, 2008, 9, 1034-1040.	4.5	91
20	Ubiquitylation-dependent localization of PLK1 in mitosis. Nature Cell Biology, 2013, 15, 430-439.	10.3	91
21	Spa2p Functions as a Scaffold-like Protein to Recruit the Mpk1p MAP Kinase Module to Sites of Polarized Growth. Current Biology, 2002, 12, 1698-1703.	3.9	90
22	Mitotic redistribution of the mitochondrial network by Miro and Cenp-F. Nature Communications, 2015, 6, 8015.	12.8	84
23	Structural and kinetic analysis of the COP9-Signalosome activation and the cullin-RING ubiquitin ligase deneddylation cycle. ELife, 2016, 5, .	6.0	82
24	The multi-subunit GID/CTLH E3 ubiquitin ligase promotes cell proliferation and targets the transcription factor Hbp1 for degradation. ELife, 2018, 7, .	6.0	76
25	Endosome and Golgiâ€associated degradation (<scp>EGAD</scp>) of membrane proteins regulates sphingolipid metabolism. EMBO Journal, 2019, 38, e101433.	7.8	73
26	The human Dcn1-like protein DCNL3 promotes Cul3 neddylation at membranes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12365-12370.	7.1	71
27	Dynamic ubiquitin signaling in cell cycle regulation. Journal of Cell Biology, 2017, 216, 2259-2271.	5.2	71
28	RNAi-based screening identifies the Mms22Lâ€“Nfkbil2 complex as a novel regulator of DNA replication in human cells. EMBO Journal, 2010, 29, 4210-4222.	7.8	66
29	Regulatory control of DNA end resection by Sae2 phosphorylation. Nature Communications, 2018, 9, 4016.	12.8	64
30	Cullin-3 regulates late endosome maturation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 823-828.	7.1	61
31	Phosphoproteomic analyses reveal novel crossâ€modulation mechanisms between two signaling pathways in yeast. Molecular Systems Biology, 2014, 10, 767.	7.2	58
32	Cullin3-KLHL15 ubiquitin ligase mediates CtIP protein turnover to fine-tune DNA-end resection. Nature Communications, 2016, 7, 12628.	12.8	56
33	Modular microfluidics enables kinetic insight from time-resolved cryo-EM. Nature Communications, 2020, 11, 3465.	12.8	56
34	A SPOPL/Cullin-3 ubiquitin ligase complex regulates endocytic trafficking by targeting EPS15 at endosomes. ELife, 2016, 5, e13841.	6.0	53
35	A Cellular System for Spatial Signal Decoding in Chemical Gradients. Developmental Cell, 2015, 35, 458-470.	7.0	50
36	Inferring causal metabolic signals that regulate the dynamic <scp>TORC</scp>1â€dependent transcriptome. Molecular Systems Biology, 2015, 11, 802.	7.2	49

#	Article	IF	Citations
37	Protein kinase C and calcineurin cooperatively mediate cell survival under compressive mechanical stress. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13471-13476.	7.1	46
38	An integrated image analysis platform to quantify signal transduction in single cells. Integrative Biology (United Kingdom), 2012, 4, 1274.	1.3	39
39	Reversible, functional amyloids: towards an understanding of their regulation in yeast and humans. Cell Cycle, 2018, 17, 1545-1558.	2.6	39
40	Reversible amyloids of pyruvate kinase couple cell metabolism and stress granule disassembly. Nature Cell Biology, 2021, 23, 1085-1094.	10.3	33
41	Cortical dynamics during cell motility are regulated by CRL3KLHL21 E3 ubiquitin ligase. Nature Communications, 2016, 7, 12810.	12.8	31
42	A cullin-RING ubiquitin ligase targets exogenous Î±-synuclein and inhibits Lewy bodyâ€“like pathology. Science Translational Medicine, 2019, 11, .	12.4	30
43	Quantitative and dynamic assay of single cell chemotaxis. Integrative Biology (United Kingdom), 2012, 4, 381.	1.3	29
44	Parallel feedback loops control the basal activity of the HOG MAPK signaling cascade. Integrative Biology (United Kingdom), 2015, 7, 412-422.	1.3	29
45	The Replisome-Coupled E3 Ubiquitin Ligase Rtt101Mms22 Counteracts Mrc1 Function to Tolerate Genotoxic Stress. PLoS Genetics, 2016, 12, e1005843.	3.5	29
46	Structural and Biochemical Characterization of the Cop9 Signalosome CSN5/CSN6 Heterodimer. PLoS ONE, 2014, 9, e105688.	2.5	27
47	CRL4 WDR23 -Mediated SLBP Ubiquitylation Ensures Histone Supply during DNA Replication. Molecular Cell, 2016, 62, 627-635.	9.7	27
48	Phosphorylation of the RecQ Helicase Sgs1/BLM Controls Its DNA Unwinding Activity during Meiosis and Mitosis. Developmental Cell, 2020, 53, 706-723.e5.	7.0	26
49	Cells under pressure: how yeast cells respond to mechanical forces. Trends in Microbiology, 2022, 30, 495-510.	7.7	26
50	METALIC reveals interorganelle lipid flux in live cells by enzymatic mass tagging. Nature Cell Biology, 2022, 24, 996-1004.	10.3	26
51	Accounting for extrinsic variability in the estimation of stochastic rate constants. International Journal of Robust and Nonlinear Control, 2012, 22, 1103-1119.	3.7	23
52	A hydrophobic low-complexity region regulates aggregation of the yeast pyruvate kinase Cdc19 into amyloid-like aggregates in vitro. Journal of Biological Chemistry, 2018, 293, 11424-11432.	3.4	22
53	CRL4RBBP7 is required for efficient CENP-A deposition at centromeres. Journal of Cell Science, 2015, 128, 1732-45.	2.0	21
54	The human GID complex engages two independent modules for substrate recruitment. EMBO Reports, 2021, 22, e52981.	4.5	21

#	Article	IF	Citations
55	Rewiring phospholipid biosynthesis reveals resilience to membrane perturbations and uncovers regulators of lipid homeostasis. EMBO Journal, 2022, 41, e109998.	7.8	21
56	CSNAP, the smallest CSN subunit, modulates proteostasis through cullin-RING ubiquitin ligases. Cell Death and Differentiation, 2020, 27, 984-998.	11.2	19
57	Quantitative analysis of yeast MAPK signaling networks and crosstalk using a microfluidic device. Lab on A Chip, 2020, 20, 2646-2655.	6.0	19
58	Crosstalk and spatiotemporal regulation between stress-induced MAP kinase pathways and pheromone signaling in budding yeast. Cell Cycle, 2020, 19, 1707-1715.	2.6	17
59	Mre11-Rad50 oligomerization promotes DNA double-strand break repair. Nature Communications, 2022, 13, 2374.	12.8	15
60	Autophagy Competes for a Common Phosphatidylethanolamine Pool with Major Cellular PE-Consuming Pathways in Saccharomyces cerevisiae. Genetics, 2015, 199, 475-485.	2.9	13
61	Mechanical stress impairs pheromone signaling via Pkc1-mediated regulation of the MAPK scaffold Ste5. Journal of Cell Biology, 2019, 218, 3117-3133.	5.2	13
62	Multilayered regulation of autophagy by the Atg1 kinase orchestrates spatial and temporal control of autophagosome formation. Molecular Cell, 2021, 81, 5066-5081.e10.	9.7	13
63	Proteomics-Based Monitoring of Pathway Activity Reveals that Blocking Diacylglycerol Biosynthesis Rescues from Alpha-Synuclein Toxicity. Cell Systems, 2019, 9, 309-320.e8.	6.2	12
64	Local sampling paints a global picture: Local concentration measurements sense direction in complex chemical gradients. BioEssays, 2017, 39, 1600134.	2.5	11
65	Cytosolic pH regulates proliferation and tumour growth by promoting expression of cyclin D1. Nature Metabolism, 2020, 2, 1212-1222.	11.9	11
66	Cytosolic pH: A conserved regulator of cell growth?. Molecular and Cellular Oncology, 2014, 1, e969643.	0.7	8
67	Nanoadhesive layer to prevent protein absorption in a poly(dimethylsiloxane) microfluidic device. BioTechniques, 2020, 69, 46-51.	1.8	8
68	Guard the guardian: A CRL4 ligase stands watch over histone production. Nucleus, 2017, 8, 134-143.	2.2	7
69	A rapid and effective vignetting correction for quantitative microscopy. RSC Advances, 2014, 4, 52727-52733.	3.6	6
70	The RING Domain of the Scaffold Protein Ste5 Adopts a Molten Globular Character with High Thermal and Chemical Stability. Angewandte Chemie - International Edition, 2014, 53, 1320-1323.	13.8	6