

Matthias Peter

List of Publications by Year in descending order

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70
papers

8,599
citations

94433

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72
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85
all docs

85
docs citations

85
times ranked

17001
citing authors

#	ARTICLE	IF	CITATIONS
1	Cells under pressure: how yeast cells respond to mechanical forces. Trends in Microbiology, 2022, 30, 495-510.	7.7	26
2	Rewiring phospholipid biosynthesis reveals resilience to membrane perturbations and uncovers regulators of lipid homeostasis. EMBO Journal, 2022, 41, e109998.	7.8	21
3	Mre11-Rad50 oligomerization promotes DNA double-strand break repair. Nature Communications, 2022, 13, 2374.	12.8	15
4	METALIC reveals interorganelle lipid flux in live cells by enzymatic mass tagging. Nature Cell Biology, 2022, 24, 996-1004.	10.3	26
5	Reversible amyloids of pyruvate kinase couple cell metabolism and stress granule disassembly. Nature Cell Biology, 2021, 23, 1085-1094.	10.3	33
6	The human GID complex engages two independent modules for substrate recruitment. EMBO Reports, 2021, 22, e52981.	4.5	21
7	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
8	CSNAP, the smallest CSN subunit, modulates proteostasis through cullin-RING ubiquitin ligases. Cell Death and Differentiation, 2020, 27, 984-998.	11.2	19
9	Cytosolic pH regulates proliferation and tumour growth by promoting expression of cyclin D1. Nature Metabolism, 2020, 2, 1212-1222.	11.9	11
10	Modular microfluidics enables kinetic insight from time-resolved cryo-EM. Nature Communications, 2020, 11, 3465.	12.8	56
11	Nanoadhesive layer to prevent protein absorption in a poly(dimethylsiloxane) microfluidic device. BioTechniques, 2020, 69, 46-51.	1.8	8
12	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
13	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
14	Quantitative analysis of yeast MAPK signaling networks and crosstalk using a microfluidic device. Lab on A Chip, 2020, 20, 2646-2655.	6.0	19
15	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
16	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
17	A cullin-RING ubiquitin ligase targets exogenous α -synuclein and inhibits Lewy body-like pathology. Science Translational Medicine, 2019, 11, .	12.4	30
18	Endosome and Golgi-associated degradation (EGAD) of membrane proteins regulates sphingolipid metabolism. EMBO Journal, 2019, 38, e101433.	7.8	73

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19	Regulatory control of DNA end resection by Sae2 phosphorylation. <i>Nature Communications</i> , 2018, 9, 4016.	12.8	64
20	A hydrophobic low-complexity region regulates aggregation of the yeast pyruvate kinase Cdc19 into amyloid-like aggregates in vitro. <i>Journal of Biological Chemistry</i> , 2018, 293, 11424-11432.	3.4	22
21	The multi-subunit GID/CTLH E3 ubiquitin ligase promotes cell proliferation and targets the transcription factor Hbp1 for degradation. <i>ELife</i> , 2018, 7, .	6.0	76
22	Reversible, functional amyloids: towards an understanding of their regulation in yeast and humans. <i>Cell Cycle</i> , 2018, 17, 1545-1558.	2.6	39
23	Guard the guardian: A CRL4 ligase stands watch over histone production. <i>Nucleus</i> , 2017, 8, 134-143.	2.2	7
24	Local sampling paints a global picture: Local concentration measurements sense direction in complex chemical gradients. <i>BioEssays</i> , 2017, 39, 1600134.	2.5	11
25	Reversible protein aggregation is a protective mechanism to ensure cell cycle restart after stress. <i>Nature Cell Biology</i> , 2017, 19, 1202-1213.	10.3	136
26	Opposing effects of cancer-type-specific SPOP mutants on BET protein degradation and sensitivity to BET inhibitors. <i>Nature Medicine</i> , 2017, 23, 1046-1054.	30.7	145
27	Protein kinase C and calcineurin cooperatively mediate cell survival under compressive mechanical stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13471-13476.	7.1	46
28	Dynamic ubiquitin signaling in cell cycle regulation. <i>Journal of Cell Biology</i> , 2017, 216, 2259-2271.	5.2	71
29	Functional mapping of yeast genomes by saturated transposition. <i>ELife</i> , 2017, 6, .	6.0	126
30	CRL4 WDR23 -Mediated SLBP Ubiquitylation Ensures Histone Supply during DNA Replication. <i>Molecular Cell</i> , 2016, 62, 627-635.	9.7	27
31	Cullin3-KLHL15 ubiquitin ligase mediates CtIP protein turnover to fine-tune DNA-end resection. <i>Nature Communications</i> , 2016, 7, 12628.	12.8	56
32	Cortical dynamics during cell motility are regulated by CRL3KLHL21 E3 ubiquitin ligase. <i>Nature Communications</i> , 2016, 7, 12810.	12.8	31
33	The Replisome-Coupled E3 Ubiquitin Ligase Rtt101Mms22 Counteracts Mrc1 Function to Tolerate Genotoxic Stress. <i>PLoS Genetics</i> , 2016, 12, e1005843.	3.5	29
34	Structural and kinetic analysis of the COP9-Signalosome activation and the cullin-RING ubiquitin ligase deneddylation cycle. <i>ELife</i> , 2016, 5, .	6.0	82
35	A SPOPL/Cullin-3 ubiquitin ligase complex regulates endocytic trafficking by targeting EPS15 at endosomes. <i>ELife</i> , 2016, 5, e13841.	6.0	53
36	Parallel feedback loops control the basal activity of the HOG MAPK signaling cascade. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 412-422.	1.3	29

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37	Autophagy Competes for a Common Phosphatidylethanolamine Pool with Major Cellular PE-Consuming Pathways in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2015, 199, 475-485.	2.9	13
38	A mechanism for the suppression of homologous recombination in G1 cells. <i>Nature</i> , 2015, 528, 422-426.	27.8	409
39	A Cellular System for Spatial Signal Decoding in Chemical Gradients. <i>Developmental Cell</i> , 2015, 35, 458-470.	7.0	50
40	Inferring causal metabolic signals that regulate the dynamic TORC1-dependent transcriptome. <i>Molecular Systems Biology</i> , 2015, 11, 802.	7.2	49
41	CRL4RBBP7 is required for efficient CENP-A deposition at centromeres. <i>Journal of Cell Science</i> , 2015, 128, 1732-45.	2.0	21
42	Mitotic redistribution of the mitochondrial network by Miro and Cenp-F. <i>Nature Communications</i> , 2015, 6, 8015.	12.8	84
43	Protein neddylation: beyond cullin-RING ligases. <i>Nature Reviews Molecular Cell Biology</i> , 2015, 16, 30-44.	37.0	417
44	Structural and Biochemical Characterization of the Cop9 Signalosome CSN5/CSN6 Heterodimer. <i>PLoS ONE</i> , 2014, 9, e105688.	2.5	27
45	Phosphoproteomic analyses reveal novel cross-modulation mechanisms between two signaling pathways in yeast. <i>Molecular Systems Biology</i> , 2014, 10, 767.	7.2	58
46	Cytosolic pH: A conserved regulator of cell growth?. <i>Molecular and Cellular Oncology</i> , 2014, 1, e969643.	0.7	8
47	A rapid and effective vignetting correction for quantitative microscopy. <i>RSC Advances</i> , 2014, 4, 52727-52733.	3.6	6
48	Scalable inference of heterogeneous reaction kinetics from pooled single-cell recordings. <i>Nature Methods</i> , 2014, 11, 197-202.	19.0	131
49	Cytosolic pH Regulates Cell Growth through Distinct GTPases, Arf1 and Gtr1, to Promote Ras/PKA and TORC1 Activity. <i>Molecular Cell</i> , 2014, 55, 409-421.	9.7	121
50	Early Steps in Autophagy Depend on Direct Phosphorylation of Atg9 by the Atg1 Kinase. <i>Molecular Cell</i> , 2014, 53, 471-483.	9.7	274
51	Substrate recognition in selective autophagy and the ubiquitin-proteasome system. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 163-181.	4.1	130
52	The RING Domain of the Scaffold Protein Ste5 Adopts a Molten Globular Character with High Thermal and Chemical Stability. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1320-1323.	13.8	6
53	Ubiquitylation-dependent localization of PLK1 in mitosis. <i>Nature Cell Biology</i> , 2013, 15, 430-439.	10.3	91
54	Structural Basis for a Reciprocal Regulation between SCF and CSN. <i>Cell Reports</i> , 2012, 2, 616-627.	6.4	145

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55	Binding of the Atg1/ULK1 kinase to the ubiquitin-like protein Atg8 regulates autophagy. <i>EMBO Journal</i> , 2012, 31, 3691-3703.	7.8	237
56	Cullin-3 regulates late endosome maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 823-828.	7.1	61
57	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
58	An integrated image analysis platform to quantify signal transduction in single cells. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 1274.	1.3	39
59	Accounting for extrinsic variability in the estimation of stochastic rate constants. <i>International Journal of Robust and Nonlinear Control</i> , 2012, 22, 1103-1119.	3.7	23
60	Quantitative and dynamic assay of single cell chemotaxis. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 381.	1.3	29
61	Transient Activation of the HOG MAPK Pathway Regulates Bimodal Gene Expression. <i>Science</i> , 2011, 332, 732-735.	12.6	134
62	Cytosolic pH is a second messenger for glucose and regulates the PKA pathway through V-ATPase. <i>EMBO Journal</i> , 2010, 29, 2515-2526.	7.8	257
63	RNAi-based screening identifies the Mms22Lâ€“Nfkbil2 complex as a novel regulator of DNA replication in human cells. <i>EMBO Journal</i> , 2010, 29, 4210-4222.	7.8	66
64	The human Dcn1-like protein DCNL3 promotes Cul3 neddylation at membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12365-12370.	7.1	71
65	The Cul3â€“KLHL21 E3 ubiquitin ligase targets Aurora B to midzone microtubules in anaphase and is required for cytokinesis. <i>Journal of Cell Biology</i> , 2009, 187, 791-800.	5.2	119
66	Rtt101 and Mms1 in budding yeast form a CUL4^{DDB1}-like ubiquitin ligase that promotes replication through damaged DNA. <i>EMBO Reports</i> , 2008, 9, 1034-1040.	4.5	91
67	A Cul3-Based E3 Ligase Removes Aurora B from Mitotic Chromosomes, Regulating Mitotic Progression and Completion of Cytokinesis in Human Cells. <i>Developmental Cell</i> , 2007, 12, 887-900.	7.0	191
68	Cullin-based ubiquitin ligases: Cul3â€“BTB complexes join the family. <i>EMBO Journal</i> , 2004, 23, 1681-1687.	7.8	350
69	Spa2p Functions as a Scaffold-like Protein to Recruit the Mpk1p MAP Kinase Module to Sites of Polarized Growth. <i>Current Biology</i> , 2002, 12, 1698-1703.	3.9	90
70	Phosphorylation of the MEKK Ste11p by the PAK-like kinase Ste20p is required for MAP kinase signaling in vivo. <i>Current Biology</i> , 2000, 10, 630-639.	3.9	144