

Mark Petronczki

List of Publications by Year in descending order

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51
papers

7,807
citations

76326

40
h-index

182427

51
g-index

56
all docs

56
docs citations

56
times ranked

8576
citing authors

#	ARTICLE	IF	CITATIONS
1	BI 2536, a Potent and Selective Inhibitor of Polo-like Kinase 1, Inhibits Tumor Growth In Vivo. <i>Current Biology</i> , 2007, 17, 316-322.	3.9	748
2	Un MÃ©nage Ã Quatre. <i>Cell</i> , 2003, 112, 423-440.	28.9	679
3	The Small-Molecule Inhibitor BI 2536 Reveals Novel Insights into Mitotic Roles of Polo-like Kinase 1. <i>Current Biology</i> , 2007, 17, 304-315.	3.9	627
4	Polo on the Riseâ€”from Mitotic Entry to Cytokinesis with Plk1. <i>Developmental Cell</i> , 2008, 14, 646-659.	7.0	442
5	Protein phosphatase 2A protects centromeric sister chromatid cohesion during meiosis I. <i>Nature</i> , 2006, 441, 53-61.	27.8	419
6	DmPAR-6 directs epithelial polarity and asymmetric cell division of neuroblasts in <i>Drosophila</i> . <i>Nature Cell Biology</i> , 2001, 3, 43-49.	10.3	377
7	Sequential Roles of Cdc42, Par-6, aPKC, and Lgl in the Establishment of Epithelial Polarity during <i>Drosophila</i> Embryogenesis. <i>Developmental Cell</i> , 2004, 6, 845-854.	7.0	307
8	Heterotrimeric G Proteins Direct Two Modes of Asymmetric Cell Division in the <i>Drosophila</i> Nervous System. <i>Cell</i> , 2001, 107, 183-194.	28.9	291
9	Polo-like Kinase 1 Triggers the Initiation of Cytokinesis in Human Cells by Promoting Recruitment of the RhoGEF Ect2 to the Central Spindle. <i>Developmental Cell</i> , 2007, 12, 713-725.	7.0	257
10	BI-3406, a Potent and Selective SOS1â€”KRAS Interaction Inhibitor, Is Effective in KRAS-Driven Cancers through Combined MEK Inhibition. <i>Cancer Discovery</i> , 2021, 11, 142-157.	9.4	223
11	The breast cancer tumor suppressor BRCA2 promotes the specific targeting of RAD51 to single-stranded DNA. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 1263-1265.	8.2	217
12	Kinetochores Recruitment of Two Nucleolar Proteins Is Required for Homolog Segregation in Meiosis I. <i>Developmental Cell</i> , 2003, 4, 535-548.	7.0	201
13	Polo-Like Kinase 1 Directs Assembly of the HsCdk-4 RhoGAP/Ect2 RhoGEF Complex to Initiate Cleavage Furrow Formation. <i>PLoS Biology</i> , 2009, 7, e1000110.	5.6	191
14	Monopolar Attachment of Sister Kinetochores at Meiosis I Requires Casein Kinase 1. <i>Cell</i> , 2006, 126, 1049-1064.	28.9	168
15	Cytokinesis in Animal Cells. <i>Cold Spring Harbor Perspectives in Biology</i> , 2015, 7, a015834.	5.5	168
16	Targeting of the RhoGEF Ect2 to the Equatorial Membrane Controls Cleavage Furrow Formation during Cytokinesis. <i>Developmental Cell</i> , 2011, 21, 1104-1115.	7.0	157
17	Polo-like kinase 1 reaches beyond mitosisâ€”cytokinesis, DNA damage response, and development. <i>Current Opinion in Cell Biology</i> , 2008, 20, 650-660.	5.4	153
18	Barentsz is essential for the posterior localization of oskar mRNA and colocalizes with it to the posterior pole. <i>Journal of Cell Biology</i> , 2001, 154, 511-524.	5.2	131

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19	Centralspindlin links the mitotic spindle to the plasma membrane during cytokinesis. <i>Nature</i> , 2012, 492, 276-279.	27.8	131
20	Sister-chromatid cohesion mediated by the alternative RF-Cctf18/Dcc1/Ctf8, the helicase Chl1 and the polymerase- α -associated protein Ctf4 is essential for chromatid disjunction during meiosis II. <i>Journal of Cell Science</i> , 2004, 117, 3547-3559.	2.0	130
21	Division of the Nucleolus and Its Release of CDC14 during Anaphase of Meiosis I Depends on Separase, SPO12, and SLK19. <i>Developmental Cell</i> , 2003, 4, 727-739.	7.0	115
22	Expanding the Reach of Precision Oncology by Drugging All <i>KRAS</i> Mutants. <i>Cancer Discovery</i> , 2022, 12, 924-937.	9.4	110
23	Acute BAF perturbation causes immediate changes in chromatin accessibility. <i>Nature Genetics</i> , 2021, 53, 269-278.	21.4	103
24	Aurora B Kinase Promotes Cytokinesis by Inducing Centralspindlin Oligomers that Associate with the Plasma Membrane. <i>Developmental Cell</i> , 2015, 33, 204-215.	7.0	95
25	Synthetic lethality between the cohesin subunits STAG1 and STAG2 in diverse cancer contexts. <i>ELife</i> , 2017, 6, .	6.0	94
26	Cdk1 Inactivation Terminates Mitotic Checkpoint Surveillance and Stabilizes Kinetochore Attachments in Anaphase. <i>Current Biology</i> , 2014, 24, 638-645.	3.9	92
27	Systematic characterization of BAF mutations provides insights into intracomplex synthetic lethalties in human cancers. <i>Nature Genetics</i> , 2019, 51, 1399-1410.	21.4	92
28	Start Selective and Rigidify: The Discovery Path toward a Next Generation of EGFR Tyrosine Kinase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 10272-10293.	6.4	89
29	Bazooka and PAR-6 are required with PAR-1 for the maintenance of oocyte fate in <i>Drosophila</i> . <i>Current Biology</i> , 2001, 11, 901-906.	3.9	88
30	APC/C Dysfunction Limits Excessive Cancer Chromosomal Instability. <i>Cancer Discovery</i> , 2017, 7, 218-233.	9.4	87
31	Actomyosin drives cancer cell nuclear dysmorphia and threatens genome stability. <i>Nature Communications</i> , 2017, 8, 16013.	12.8	87
32	Tumor clonality and resistance mechanisms in <i>EGFR</i> mutation-positive non-small-cell lung cancer: implications for therapeutic sequencing. <i>Future Oncology</i> , 2019, 15, 637-652.	2.4	80
33	Werner syndrome helicase is a selective vulnerability of microsatellite instability-high tumor cells. <i>ELife</i> , 2019, 8, .	6.0	80
34	F-Actin Interactome Reveals Vimentin as a Key Regulator of Actin Organization and Cell Mechanics in Mitosis. <i>Developmental Cell</i> , 2020, 52, 210-222.e7.	7.0	70
35	Relocation of the Chromosomal Passenger Complex Prevents Mitotic Checkpoint Engagement at Anaphase. <i>Current Biology</i> , 2010, 20, 1402-1407.	3.9	62
36	Fragment-based discovery of a chemical probe for the PWWP1 domain of NSD3. <i>Nature Chemical Biology</i> , 2019, 15, 822-829.	8.0	59

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37	Tandem affinity purification of functional TAP-tagged proteins from human cells. <i>Nature Protocols</i> , 2007, 2, 1145-1151.	12.0	57
38	Plasma Membrane Association but Not Midzone Recruitment of RhoGEF ECT2 Is Essential for Cytokinesis. <i>Cell Reports</i> , 2016, 17, 2672-2686.	6.4	56
39	Functional genomics identifies a requirement of pre-mRNA splicing factors for sister chromatid cohesion. <i>EMBO Journal</i> , 2014, 33, 2623-2642.	7.8	51
40	An astral simulacrum of the central spindle accounts for normal, spindle-less, and anucleate cytokinesis in echinoderm embryos. <i>Molecular Biology of the Cell</i> , 2014, 25, 4049-4062.	2.1	45
41	Cep55 promotes cytokinesis of neural progenitors but is dispensable for most mammalian cell divisions. <i>Nature Communications</i> , 2020, 11, 1746.	12.8	37
42	Evidence that the tumor-suppressor protein BRCA2 does not regulate cytokinesis in human cells. <i>Journal of Cell Science</i> , 2010, 123, 1395-1400.	2.0	28
43	SMARCA2-deficiency confers sensitivity to targeted inhibition of SMARCA4 in esophageal squamous cell carcinoma cell lines. <i>Scientific Reports</i> , 2019, 9, 11661.	3.3	25
44	Meiotic nuclear divisions in budding yeast require PP2ACdc55-mediated antagonism of Net1 phosphorylation by Cdk. <i>Journal of Cell Biology</i> , 2011, 193, 1157-1166.	5.2	21
45	STAG1 vulnerabilities for exploiting cohesin synthetic lethality in STAG2-deficient cancers. <i>Life Science Alliance</i> , 2020, 3, e202000725.	2.8	19
46	RIOK1 kinase activity is required for cell survival irrespective of <i>MTAP</i> status. <i>Oncotarget</i> , 2018, 9, 28625-28637.	1.8	15
47	The "anaphase problem": how to disable the mitotic checkpoint when sisters split. <i>Biochemical Society Transactions</i> , 2010, 38, 1660-1666.	3.4	14
48	Structure of the helicase core of Werner helicase, a key target in microsatellite instability cancers. <i>Life Science Alliance</i> , 2021, 4, e202000795.	2.8	12
49	ESCRTing DNA at the Cleavage Site During Cytokinesis. <i>Science</i> , 2012, 336, 166-167.	12.6	2
50	Cell Division: Switching On ECT2 in a Non-Canonical Fashion. <i>Current Biology</i> , 2020, 30, R947-R949.	3.9	2
51	Born Equal: Dual Safeguards for Daughter Cell Size Symmetry. <i>Cell</i> , 2013, 154, 269-271.	28.9	1