

Thomas U Mayer

List of Publications by Year in descending order

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77
papers

8,761
citations

101543

36
h-index

76900

74
g-index

82
all docs

82
docs citations

82
times ranked

10141
citing authors

#	ARTICLE	IF	CITATIONS
1	Small Molecule Inhibitor of Mitotic Spindle Bipolarity Identified in a Phenotype-Based Screen. <i>Science</i> , 1999, 286, 971-974.	12.6	1,638
2	A Novel Ubiquitination Factor, E4, Is Involved in Multiubiquitin Chain Assembly. <i>Cell</i> , 1999, 96, 635-644.	28.9	924
3	Stattic: A Small-Molecule Inhibitor of STAT3 Activation and Dimerization. <i>Chemistry and Biology</i> , 2006, 13, 1235-1242.	6.0	899
4	Probing Spindle Assembly Mechanisms with Monastrol, a Small Molecule Inhibitor of the Mitotic Kinesin, Eg5. <i>Journal of Cell Biology</i> , 2000, 150, 975-988.	5.2	633
5	Control of microtubule dynamics by the antagonistic activities of XMAP215 and XKCM1 in <i>Xenopus</i> egg extracts. <i>Nature Cell Biology</i> , 2000, 2, 13-19.	10.3	401
6	Phosphorylation of mitotic kinesin-like protein 2 by polo-like kinase 1 is required for cytokinesis. <i>Journal of Cell Biology</i> , 2003, 162, 863-876.	5.2	293
7	The Human Kinesin Kif18A Is a Motile Microtubule Depolymerase Essential for Chromosome Congression. <i>Current Biology</i> , 2007, 17, 488-498.	3.9	293
8	SNAP family of NSF attachment proteins includes a brain-specific isoform. <i>Nature</i> , 1993, 362, 353-355.	27.8	275
9	Dissecting cellular processes using small molecules: identification of colchicine-like, taxol-like and other small molecules that perturb mitosis. <i>Chemistry and Biology</i> , 2000, 7, 275-286.	6.0	235
10	Fusion of Cells by Flipped SNAREs. <i>Science</i> , 2003, 300, 1745-1749.	12.6	223
11	Calcium triggers exit from meiosis II by targeting the APC/C inhibitor XErp1 for degradation. <i>Nature</i> , 2005, 437, 1048-1052.	27.8	216
12	Role of the proteasome in membrane extraction of a short-lived ER-transmembrane protein. <i>EMBO Journal</i> , 1998, 17, 3251-3257.	7.8	185
13	<i>Xenopus</i> polo-like kinase Plx1 regulates XErp1, a novel inhibitor of APC/C activity. <i>Genes and Development</i> , 2005, 19, 502-513.	5.9	172
14	Evidence for a satellite secretory pathway in neuronal dendritic spines. <i>Current Biology</i> , 2001, 11, 351-355.	3.9	158
15	Cdk1 Negatively Regulates Midzone Localization of the Mitotic Kinesin Mklp2 and the Chromosomal Passenger Complex. <i>Current Biology</i> , 2009, 19, 607-612.	3.9	145
16	HR22C16: A Potent Small-Molecule Probe for the Dynamics of Cell Division. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 2379-2382.	13.8	136
17	Sequence characteristics of functional siRNAs. <i>Rna</i> , 2005, 11, 864-872.	3.5	135
18	Synthesis and Target Identification of Hymenialdisine Analogs. <i>Chemistry and Biology</i> , 2004, 11, 247-259.	6.0	128

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19	Chemical genetics: tailoring tools for cell biology. <i>Trends in Cell Biology</i> , 2003, 13, 270-277.	7.9	103
20	Cytostatic factor: an activity that puts the cell cycle on hold. <i>Journal of Cell Science</i> , 2006, 119, 1213-1218.	2.0	98
21	Genome-wide RNAi Screening Identifies Protein Modules Required for 40S Subunit Synthesis in Human Cells. <i>Cell Reports</i> , 2015, 13, 2879-2891.	6.4	90
22	Synthesis and biological evaluation of new tetrahydro- β -carbolines as inhibitors of the mitotic kinesin Eg5. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 6094-6111.	3.0	88
23	A Non-Motor Microtubule Binding Site Is Essential for the High Processivity and Mitotic Function of Kinesin-8 Kif18A. <i>PLoS ONE</i> , 2011, 6, e27471.	2.5	72
24	Natural Product-Guided Synthesis of a Spiroacetal Collection Reveals Modulators of Tubulin Cytoskeleton Integrity. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 4773-4788.	2.4	64
25	Protein phosphatase 1 is essential for Greatwall inactivation at mitotic exit. <i>EMBO Reports</i> , 2015, 16, 1501-1510.	4.5	60
26	Natural Product-Derived Modulators of Cell Cycle Progression and Viral Entry by Enantioselective Oxa Diels-Alder Reactions on the Solid Phase. <i>Chemistry and Biology</i> , 2007, 14, 443-451.	6.0	58
27	Dissecting Ubiquitin Signaling with Linkage-Defined and Protease Resistant Ubiquitin Chains. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12925-12929.	13.8	58
28	Pre-anaphase chromosome oscillations are regulated by the antagonistic activities of Cdk1 and PP1 on Kif18A. <i>Nature Communications</i> , 2014, 5, 4397.	12.8	56
29	BTB-1: A Small Molecule Inhibitor of the Mitotic Motor Protein Kif18A. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9072-9076.	13.8	55
30	Bepridil and Amiodarone Simultaneously Target the Alzheimer's Disease β - and γ -Secretase via Distinct Mechanisms. <i>Journal of Neuroscience</i> , 2010, 30, 8974-8983.	3.6	51
31	Synthesis and Biological Evaluation of Novel Eg5 Inhibitors. <i>ChemBioChem</i> , 2005, 6, 2005-2013.	2.6	48
32	Structural basis of human kinesin-8 function and inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9539-E9548.	7.1	48
33	High-Content Screening and Profiling of Drug Activity in an Automated Centrosome-Duplication Assay. <i>ChemBioChem</i> , 2005, 6, 145-151.	2.6	43
34	Automatic quantification of microtubule dynamics enables RNAi-screening of new mitotic spindle regulators. <i>Cytoskeleton</i> , 2011, 68, 266-278.	2.0	41
35	The APC/C Inhibitor XErp1/Emi2 Is Essential for <i>Xenopus</i> Early Embryonic Divisions. <i>Science</i> , 2012, 338, 520-524.	12.6	39
36	A mutant form of the rho protein can restore stress fibers and adhesion plaques in v-src transformed fibroblasts. <i>Oncogene</i> , 1999, 18, 2117-2128.	5.9	38

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37	Modulated microtubule dynamics enable Hklp2/Kif15 to assemble bipolar spindles. <i>Cell Cycle</i> , 2011, 10, 3533-3544.	2.6	38
38	Modulation of cell cycle control during oocyte-to-embryo transitions. <i>EMBO Journal</i> , 2013, 32, 2191-2203.	7.8	38
39	Monastrol analogs: A synthesis of pyrazolopyridine, benzopyranopyrazolopyridine, and oxygen-bridged azolopyrimidine derivatives and their biological screening. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 4073-4076.	2.2	37
40	Expanding the scope of cyclopropene reporters for the detection of metabolically engineered glycoproteins by Diels-Alder reactions. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2235-2242.	2.2	37
41	Regulation of Cell Division. <i>Advances in Experimental Medicine and Biology</i> , 2017, 953, 83-116.	1.6	28
42	HR22C16: A Potent Small-Molecule Probe for the Dynamics of Cell Division. <i>Angewandte Chemie</i> , 2003, 115, 2481-2484.	2.0	27
43	Small Molecule Inhibitors of Human DNA Polymerase δ . <i>ACS Chemical Biology</i> , 2011, 6, 314-319.	3.4	26
44	Transport between and Golgi Cisternae Requires the Function of the Ras-related Protein Rab6. <i>Journal of Biological Chemistry</i> , 1996, 271, 16097-16103.	3.4	24
45	Identification of Novel Quadruplex Ligands from Small Molecule Libraries by FRET-Based High-Throughput Screening. <i>ChemBioChem</i> , 2011, 12, 1422-1426.	2.6	24
46	Fluorogenic ATP Analogues for Online Monitoring of ATP Consumption: Observing Ubiquitin Activation in Real Time. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11916-11919.	13.8	24
47	Analyse des Ubiquitincodes durch proteasebeständige Ubiquitinketten mit definierter Verkettung. <i>Angewandte Chemie</i> , 2014, 126, 13139-13143.	2.0	22
48	The Functional Antagonism between Eg5 and Dynein in Spindle Bipolarization Is Not Compatible with a Simple Push-Pull Model. <i>Cell Reports</i> , 2012, 1, 408-416.	6.4	21
49	Synthesis and Biological Evaluation of Optimized Inhibitors of the Mitotic Kinesin Kif18A. <i>ACS Chemical Biology</i> , 2015, 10, 554-560.	3.4	20
50	Fingerprinting differential active site constraints of ATPases. <i>Chemical Science</i> , 2013, 4, 1588.	7.4	19
51	Mad2 Inhibitor-1 (M2I-1): A Small Molecule Protein-Protein Interaction Inhibitor Targeting the Mitotic Spindle Assembly Checkpoint. <i>ACS Chemical Biology</i> , 2015, 10, 1661-1666.	3.4	18
52	HiTSEE KNIME: a visualization tool for hit selection and analysis in high-throughput screening experiments for the KNIME platform. <i>BMC Bioinformatics</i> , 2012, 13, S4.	2.6	17
53	The role of APC/C inhibitor Emi2/XErp1 in oscillatory dynamics of early embryonic cell cycles. <i>Biophysical Chemistry</i> , 2013, 177-178, 1-6.	2.8	16
54	Calcineurin promotes APC/C activation at meiotic exit by acting on both XErp1 and Cdc20. <i>EMBO Reports</i> , 2018, 19, .	4.5	16

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55	Nucleotide induced conformation determines posttranslational isoprenylation of the ras related rab6 protein in insect cells. <i>FEBS Letters</i> , 1995, 376, 113-119.	2.8	15
56	<i>Xenopus laevis</i> Kif18A is a highly processive kinesin required for meiotic spindle integrity. <i>Biology Open</i> , 2017, 6, 463-470.	1.2	10
57	Maturation of phagosomes is accompanied by specific patterns of small GTPases. <i>Electrophoresis</i> , 1998, 19, 2528-2535.	2.4	9
58	Cell-Based Assays Using Primary Endothelial Cells to Study Multiple Steps in Inflammation. <i>Methods in Enzymology</i> , 2006, 414, 266-283.	1.0	9
59	Non-proteolytic ubiquitylation counteracts the APC/C-inhibitory function of XErp1. <i>EMBO Reports</i> , 2011, 12, 436-443.	4.5	8
60	Chemical genetics: Reshaping biology through chemistry. <i>HFSP Journal</i> , 2007, 1, 104-114.	2.5	7
61	The World's Languages Explorer: Visual Analysis of Language Features in Genealogical and Areal Contexts. <i>Computer Graphics Forum</i> , 2012, 31, 935-944.	3.0	6
62	Five Molecules We Would Take to a Remote Island. <i>Chemistry and Biology</i> , 2010, 17, 556-560.	6.0	5
63	HiTSEE: A visualization tool for hit selection and analysis in high-throughput screening experiments. , 2011, , .		4
64	Identification of MAC1: A Small Molecule That Rescues Spindle Bipolarity in Monastrol-Treated Cells. <i>ACS Chemical Biology</i> , 2016, 11, 1544-1551.	3.4	4
65	Chemical Genetics Approach to Engineer Kinesins with Sensitivity towards a Small-Molecule Inhibitor of Eg5. <i>ChemBioChem</i> , 2016, 17, 2042-2045.	2.6	4
66	Identification of Bioactive Small Molecule Inhibitors of Separase. <i>ACS Chemical Biology</i> , 2019, 14, 2155-2159.	3.4	3
67	From the extraction of continuous features in parallel texts to visual analytics of heterogeneous areal-typological datasets. <i>Studies in Language Companion Series</i> , 2014, , 13-38.	0.4	3
68	Cell-Based Assays to Probe the ERK MAP Kinase Pathway in Endothelial Cells. <i>Methods in Molecular Biology</i> , 2009, 486, 29-41.	0.9	3
69	Lockdown, a selective small-molecule inhibitor of the integrin phosphatase PPM1F, blocks cancer cell invasion. <i>Cell Chemical Biology</i> , 2022, 29, 930-946.e9.	5.2	3
70	Small molecule tools in mitosis research. <i>Methods in Cell Biology</i> , 2018, 144, 137-155.	1.1	2
71	Erratum to "Dissecting cellular processes using small molecules: identification of colchicine-like, taxol-like and other small molecules that perturb mitosis"™. <i>Chemistry and Biology</i> , 2001, 8, 1265.	6.0	1
72	High-Content Screening and Profiling of Drug Activity in an Automated Centrosome-Duplication Assay. <i>ChemBioChem</i> , 2005, 6, 218-218.	2.6	1

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73	Small Molecule Approach to Study the Function of Mitotic Kinesins. Methods in Molecular Biology, 2016, 1413, 283-299.	0.9	1
74	Kinesin-8 Members and Their Potential as Biomarker or Therapeutic Target. , 2015, , 171-191.		1
75	Biochemie und Molekularbiologie 2005. Nachrichten Aus Der Chemie, 2006, 54, 265-275.	0.0	0
76	Compound Profiling with High-Content Screening Methodology. , 0, , 215-224.		0
77	Titelbild: Analyse des Ubiquitincodes durch proteasebeständige Ubiquitinketten mit definierter	2.0	0