

Tarun M Kapoor

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

9,231
citations

71102

41
h-index

74163

75
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134
all docs

134
docs citations

134
times ranked

9941
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	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
3	The bipolar mitotic kinesin Eg5 moves on both microtubules that it crosslinks. <i>Nature</i> , 2005, 435, 114-118.	27.8	607
4	Chromosomes Can Congress to the Metaphase Plate Before Biorientation. <i>Science</i> , 2006, 311, 388-391.	12.6	405
5	Structural Basis for Helicase-Polymerase Coupling in the SARS-CoV-2 Replication-Transcription Complex. <i>Cell</i> , 2020, 182, 1560-1573.e13.	28.9	360
6	Small-molecule inhibitors of the AAA+ ATPase motor cytoplasmic dynein. <i>Nature</i> , 2012, 484, 125-129.	27.8	342
7	Midzone activation of aurora B in anaphase produces an intracellular phosphorylation gradient. <i>Nature</i> , 2008, 453, 1132-1136.	27.8	330
8	Insights into Antiparallel Microtubule Crosslinking by PRC1, a Conserved Nonmotor Microtubule Binding Protein. <i>Cell</i> , 2010, 142, 433-443.	28.9	281
9	The kinesin-4 protein Kif7 regulates mammalian Hedgehog signalling by organizing the cilium tip compartment. <i>Nature Cell Biology</i> , 2014, 16, 663-672.	10.3	258
10	Formation of stable attachments between kinetochores and microtubules depends on the B56-PP2A phosphatase. <i>Nature Cell Biology</i> , 2011, 13, 1265-1271.	10.3	239
11	Eg5 is static in bipolar spindles relative to tubulin. <i>Journal of Cell Biology</i> , 2001, 154, 1125-1134.	5.2	156
12	Mitotic Kinesin Inhibitors Induce Mitotic Arrest and Cell Death in Taxol-resistant and -sensitive Cancer Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 11569-11577.	3.4	149
13	Using transcriptome sequencing to identify mechanisms of drug action and resistance. <i>Nature Chemical Biology</i> , 2012, 8, 235-237.	8.0	148
14	Marking and Measuring Single Microtubules by PRC1 and Kinesin-4. <i>Cell</i> , 2013, 154, 377-390.	28.9	146
15	Centrosome repositioning in T cells is biphasic and driven by microtubule end-on capture-shrinkage. <i>Journal of Cell Biology</i> , 2013, 202, 779-792.	5.2	145
16	Microtubule cross-linking triggers the directional motility of kinesin-5. <i>Journal of Cell Biology</i> , 2008, 182, 421-428.	5.2	138
17	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
18	Measuring Pushing and Braking Forces Generated by Ensembles of Kinesin-5 Crosslinking Two Microtubules. <i>Developmental Cell</i> , 2015, 34, 669-681.	7.0	136

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19	Quantitative Chemical Proteomics Approach To Identify Post-translational Modification-Mediated Protein-Protein Interactions. <i>Journal of the American Chemical Society</i> , 2012, 134, 1982-1985.	13.7	114
20	The mechanics of microtubule networks in cell division. <i>Journal of Cell Biology</i> , 2017, 216, 1525-1531.	5.2	112
21	Asymmetric Molecular Architecture of the Human β -Tubulin Ring Complex. <i>Cell</i> , 2020, 180, 165-175.e16.	28.9	111
22	DrugTargetSeqR: a genomics- and CRISPR-Cas9-based method to analyze drug targets. <i>Nature Chemical Biology</i> , 2014, 10, 626-628.	8.0	110
23	Probing cell-division phenotype space and Polo-like kinase function using small molecules. , 2006, 2, 618-626.		107
24	Insights into the Micromechanical Properties of the Metaphase Spindle. <i>Cell</i> , 2011, 145, 1062-1074.	28.9	105
25	Allosteric inhibition of kinesin-5 modulates its processive directional motility. <i>Nature Chemical Biology</i> , 2006, 2, 480-485.	8.0	103
26	Human β -Tubulin Isoforms Can Regulate Microtubule Protofilament Number and Stability. <i>Developmental Cell</i> , 2018, 47, 175-190.e5.	7.0	100
27	Architectural dynamics of the meiotic spindle revealed by single-fluorophore imaging. <i>Nature Cell Biology</i> , 2007, 9, 1233-1242.	10.3	98
28	A Nonmotor Microtubule Binding Site in Kinesin-5 Is Required for Filament Crosslinking and Sliding. <i>Current Biology</i> , 2011, 21, 154-160.	3.9	97
29	Chemical proteomics reveals a γ -H2AX-53BP1 interaction in the DNA damage response. <i>Nature Chemical Biology</i> , 2015, 11, 807-814.	8.0	96
30	Mutations in Human Tubulin Proximal to the Kinesin-Binding Site Alter Dynamic Instability at Microtubule Plus- and Minus-Ends. <i>Developmental Cell</i> , 2016, 37, 72-84.	7.0	94
31	Searching for the middle ground. <i>Journal of Cell Biology</i> , 2002, 157, 551-556.	5.2	88
32	Diacylglycerol promotes centrosome polarization in T cells via reciprocal localization of dynein and myosin II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11976-11981.	7.1	86
33	The structured core of human β tubulin confers isotype-specific polymerization properties. <i>Journal of Cell Biology</i> , 2016, 213, 425-433.	5.2	84
34	Building Complexity: Insights into Self-Organized Assembly of Microtubule-Based Architectures. <i>Developmental Cell</i> , 2012, 23, 874-885.	7.0	77
35	Asymmetric Friction of Nonmotor MAPs Can Lead to Their Directional Motion in Active Microtubule Networks. <i>Cell</i> , 2014, 157, 420-432.	28.9	75
36	Near-atomic cryo-EM structure of PRC1 bound to the microtubule. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9430-9439.	7.1	70

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37	Probing the mechanical architecture of the vertebrate meiotic spindle. <i>Nature Methods</i> , 2009, 6, 167-172.	19.0	69
38	Reconstitution of the augmin complex provides insights into its architecture and function. <i>Nature Cell Biology</i> , 2014, 16, 852-863.	10.3	69
39	A Chemical Proteomics Approach to Reveal Direct Protein-Protein Interactions in Living Cells. <i>Cell Chemical Biology</i> , 2018, 25, 110-120.e3.	5.2	62
40	High-resolution imaging reveals how the spindle midzone impacts chromosome movement. <i>Journal of Cell Biology</i> , 2019, 218, 2529-2544.	5.2	55
41	Potent, Reversible, and Specific Chemical Inhibitors of Eukaryotic Ribosome Biogenesis. <i>Cell</i> , 2016, 167, 512-524.e14.	28.9	51
42	Approach to Profile Proteins That Recognize Post-Translationally Modified Histone "Tails". <i>Journal of the American Chemical Society</i> , 2010, 132, 2504-2505.	13.7	46
43	Unraveling cell division mechanisms with small-molecule inhibitors. <i>Nature Chemical Biology</i> , 2006, 2, 19-27.	8.0	45
44	Structural Insights into Mdn1, an Essential AAA Protein Required for Ribosome Biogenesis. <i>Cell</i> , 2018, 175, 822-834.e18.	28.9	42
45	MZT Proteins Form Multi-Faceted Structural Modules in the γ -Tubulin Ring Complex. <i>Cell Reports</i> , 2020, 31, 107791.	6.4	42
46	Chemical strategies to overcome resistance against targeted anticancer therapeutics. <i>Nature Chemical Biology</i> , 2020, 16, 817-825.	8.0	41
47	Metaphase Spindle Assembly. <i>Biology</i> , 2017, 6, 8.	2.8	40
48	A Myosin-V Inhibitor Based on Privileged Chemical Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8484-8488.	13.8	39
49	Force-dependent stimulation of RNA unwinding by SARS-CoV-2 Ω 13 helicase. <i>Biophysical Journal</i> , 2021, 120, 1020-1030.	0.5	39
50	Analyzing Fission Yeast Multidrug Resistance Mechanisms to Develop a Genetically Tractable Model System for Chemical Biology. <i>Chemistry and Biology</i> , 2012, 19, 893-901.	6.0	36
51	Examining post-translational modification-mediated protein-protein interactions using a chemical proteomics approach. <i>Protein Science</i> , 2013, 22, 287-295.	7.6	33
52	Designing a chemical inhibitor for the AAA protein spastin using active site mutations. <i>Nature Chemical Biology</i> , 2019, 15, 444-452.	8.0	31
53	Chemical structure-guided design of dynapyrazoles, cell-permeable dynein inhibitors with a unique mode of action. <i>ELife</i> , 2017, 6, .	6.0	31
54	Leveraging Chemotype-Specific Resistance for Drug Target Identification and Chemical Biology. <i>Trends in Pharmacological Sciences</i> , 2017, 38, 1100-1109.	8.7	30

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55	HR22C16: A Potent Small-Molecule Probe for the Dynamics of Cell Division. <i>Angewandte Chemie</i> , 2003, 115, 2481-2484.	2.0	27
56	Non-centrosomal microtubules at kinetochores promote rapid chromosome biorientation during mitosis in human cells. <i>Current Biology</i> , 2022, 32, 1049-1063.e4.	3.9	24
57	Dissecting the first and the second meiotic divisions using a marker-less drug-hypersensitive fission yeast. <i>Cell Cycle</i> , 2014, 13, 1327-1334.	2.6	23
58	Biochemical reconstitutions reveal principles of human $\hat{\beta}$ -TuRC assembly and function. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	23
59	Micromechanics of the Vertebrate Meiotic Spindle Examined by Stretching along the Pole-to-Pole Axis. <i>Biophysical Journal</i> , 2014, 106, 735-740.	0.5	22
60	Cytoplasmic Dynein Antagonists with Improved Potency and Isoform Selectivity. <i>ACS Chemical Biology</i> , 2016, 11, 53-60.	3.4	19
61	Microtubules Enhance Mesoscale Effective Diffusivity in the Crowded Metaphase Cytoplasm. <i>Developmental Cell</i> , 2020, 54, 574-582.e4.	7.0	18
62	A Chemical Biology Strategy to Analyze Rheostat-like Protein Kinase-Dependent Regulation. <i>Chemistry and Biology</i> , 2013, 20, 262-271.	6.0	16
63	Analyzing Resistance to Design Selective Chemical Inhibitors for AAA Proteins. <i>Cell Chemical Biology</i> , 2019, 26, 1263-1273.e5.	5.2	16
64	Designing Allele-Specific Inhibitors of Spastin, a Microtubule-Severing AAA Protein. <i>Journal of the American Chemical Society</i> , 2019, 141, 5602-5606.	13.7	16
65	Using $\hat{\sim}$ biased-privileged $\hat{\sim}$ scaffolds to identify lysine methyltransferase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 2253-2260.	3.0	13
66	Site-Specific Chemistry on the Microtubule Polymer. <i>Journal of the American Chemical Society</i> , 2013, 135, 12520-12523.	13.7	11
67	Purification of Affinity Tag-free Recombinant Tubulin from Insect Cells. <i>STAR Protocols</i> , 2020, 1, 100011.	1.2	11
68	Using chemical inhibitors to probe AAA protein conformational dynamics and cellular functions. <i>Current Opinion in Chemical Biology</i> , 2019, 50, 45-54.	6.1	8
69	Chromosome Segregation: Correcting Improper Attachment. <i>Current Biology</i> , 2004, 14, R1011-R1013.	3.9	7
70	Diversity-oriented Synthesis. , 0, , 483-518.		7
71	Controlling Protein $\hat{\sim}$ Protein Interactions Using Chemical Inducers and Disrupters of Dimerization. , 0, , 227-249.		7
72	Long-range intramolecular allostery and regulation in the dynein-like AAA protein Mdn1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18459-18469.	7.1	6

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73	Distinct Mechanisms of Resistance to a CENP-E Inhibitor Emerge in Near-Haploid and Diploid Cancer Cells. Cell Chemical Biology, 2020, 27, 850-857.e6.	5.2	6
74	A chemical genetics approach to examine the functions of AAA proteins. Nature Structural and Molecular Biology, 2021, 28, 388-397.	8.2	4
75	Chemical probes for dynein. , 2018, , 172-191.		3
76	Using Natural Products to Unravel Cell Biology. , 0, , 95-114.		3
77	Targeting allostery in the Dynein motor domain with small molecule inhibitors. Cell Chemical Biology, 2021, 28, 1460-1473.e15.	5.2	2
78	A wrench in the motor. Nature Chemical Biology, 2021, , .	8.0	2
79	Drugs Targeting Proteinâ€“Protein Interactions. , 0, , 979-1002.		2
80	Chemical Strategies for Activity-based Proteomics. , 0, , 403-426.		1
81	Analyzing the micromechanics of the cell division apparatus. Methods in Cell Biology, 2018, 145, 173-190.	1.1	1
82	The Biarsenical-tetracysteine Protein Tag: Chemistry and Biological Applications. , 0, , 427-457.		1
83	Chemical Approaches to Exploit Fusion Proteins for Functional Studies. , 0, , 458-479.		1
84	Managerial Challenges in Implementing Chemical Biology Platforms. , 0, , 789-803.		1
85	Reverse Chemical Geneticsâ€“ An Important Strategy for the Study of Protein Function in Chemical Biology and Drug Discovery. , 0, , 355-384.		1
86	Chemical Biology of Kinases Studied by NMR Spectroscopy. , 0, , 852-890.		1
87	Chemical Complementation: Bringing the Power of Genetics to Chemistry. , 0, , 199-226.		0
88	2P-224 Examining the mechanical features of the vertebrate meiotic spindle(The 46th Annual Meeting) Tj ETQq0 0 0 rgBT /Overlock 10 T		0
89	1P-199 Probing dynamic shape regulation of the meiotic spindle(The 46th Annual Meeting of the) Tj ETQq1 1 0.784314 rgBT /Overlock 0.1 0		0
90	1P218 1C1325 Regulatory mechanism of the shape and size of the vertebrate meiotic spindle(Cell) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Butsuri, 2010, 50, S57-S58.	0.1	0

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91	An Optical Switch for a Motor Protein. ChemBioChem, 2011, 12, 2265-2266.	2.6	0
92	Analyzing Distinct Binding Modes of Diaminotriazole-Based Spastin Inhibitors Through Biochemical Resistance. SSRN Electronic Journal, 0, , .	0.4	0
93	Chemical Biologyâ€™ An Outlook. , 0, , 1143-1150.		0
94	Chemical Biology and Enzymology: Protein Phosphorylation as a Case Study. , 0, , 385-402.		0