Sabine Petry

List of Publications by Citations

31 papers	2,701 citations	17 h-index	42 g-index
42 ext. papers	3,254 ext. citations	14 avg, IF	5.45 L-index

#	Paper	IF	Citations
31	Structure of the 70S ribosome complexed with mRNA and tRNA. *Science*, **2006**, 313, 1935-42	33.3	1071
30	Insights into translational termination from the structure of RF2 bound to the ribosome. *Science*, **2008**, 322, 953-6	33.3	247
29	Branching microtubule nucleation in Xenopus egg extracts mediated by augmin and TPX2. *Cell*, **2013**, 152, 768-77	56.2	236
28	Crystal structures of the ribosome in complex with release factors RF1 and RF2 bound to a cognate stop codon. *Cell*, **2005**, 123, 1255-66	56.2	223
27	The augmin complex plays a critical role in spindle microtubule generation for mitotic progression and cytokinesis in human cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 6998-7003	11.5	176
26	Mechanisms of Mitotic Spindle Assembly. *Annual Review of Biochemistry*, **2016**, 85, 659-83	29.1	104
25	Microtubule nucleation at the centrosome and beyond. *Nature Cell Biology*, **2015**, 17, 1089-93	23.4	98
24	XMAP215 is a microtubule nucleation factor that functions synergistically with the γ-tubulin ring complex. *Nature Cell Biology*, **2018**, 20, 575-585	23.4	89
23	Crystal structure of the ribosome recycling factor bound to the ribosome. *Nature Structural and Molecular Biology*, **2007**, 14, 733-7	17.6	87
22	Augmin promotes meiotic spindle formation and bipolarity in Xenopus egg extracts. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 14473-8	11.5	69
21	Phase separation of TPX2 enhances and spatially coordinates microtubule nucleation. *Nature Communications*, **2020**, 11, 270	17.4	58
20	Structural analysis of the role of TPX2 in branching microtubule nucleation. *Journal of Cell Biology*, **2017**, 216, 983-997	7.3	53
19	Building the Microtubule Cytoskeleton Piece by Piece. *Journal of Biological Chemistry*, **2015**, 290, 17154-62	5.4	30
18	Mechanism of how augmin directly targets the γ-tubulin ring complex to microtubules. *Journal of Cell Biology*, **2018**, 217, 2417-2428	7.3	30
17	Spatiotemporal organization of branched microtubule networks. *ELife*, **2019**, 8,	8.9	29
16	Biochemical reconstitution of branching microtubule nucleation. *ELife*, **2020**, 9,	8.9	25
15	The transition state and regulation of γTuRC-mediated microtubule nucleation revealed by single molecule microscopy. *ELife*, **2020**, 9,	8.9	21

List of Publications

14	Phase Transitioning the Centrosome into a Microtubule Nucleator. *Biochemistry*, **2018**, 57, 30-37	3.2	13
13	A hydrodynamic instability drives protein droplet formation on microtubules to nucleate branches.. *Nature Physics*, **2021**, 17, 493-498	16.2	12
12	Visualizing and Analyzing Branching Microtubule Nucleation Using Meiotic Xenopus Egg Extracts and TIRF Microscopy. *Methods in Molecular Biology*, **2016**, 1413, 77-85	1.4	5
11	A new cap for kinetochore fibre minus ends. *Nature Cell Biology*, **2011**, 13, 1389-91	23.4	4
10	Uniform intensity in multifocal microscopy using a spatial light modulator. *PLoS ONE*, **2020**, 15, e0230217	3.7	3
9	Phase separation of TPX2 enhances and spatially coordinates microtubule nucleation		3
8	Biochemical reconstitution of branching microtubule nucleation		3
7	Interaction of spindle assembly factor TPX2 with importins-β inhibits protein phase separation. *Journal of Biological Chemistry*, **2021**, 297, 100998	5.4	2
6	The life of a microtubule. *Molecular Biology of the Cell*, **2018**, 29, 689	3.5	1
5	How to run an academic lab based on a basketball strategy. *Molecular Biology of the Cell*, **2019**, 30, 2859-2861	3.3	1
4	The transition state and regulation of γTuRC-mediated microtubule nucleation revealed by single molecule microscopy		1
3	Branching microtubule nucleation is controlled by importin-mediated inhibition of TPX2 phase separation		1
2	Molecular insight into how γTuRC makes microtubules. *Journal of Cell Science*, **2021**, 134,	5.3	1
1	Confinement size determines the architecture of Ran-induced microtubule networks. *Soft Matter*, **2021**, 17, 5921-5931	3.6	0