Liedewij Laan

List of Publications by Year
in descending order

23 papers	1,873 citations	759233 12 h-index	677142 22 g-index
33 all docs	33 docs citations	33 times ranked	2267 citing authors

#	Article	IF	Citations
1	Direct visualization of superselective colloid-surface binding mediated by multivalent interactions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	14
2	The Path towards Predicting Evolution as Illustrated in Yeast Cell Polarity. Cells, 2020, 9, 2534.	4.1	4
3	Predicting Evolution Using Regulatory Architecture. Annual Review of Biophysics, 2020, 49, 181-197.	10.0	9
4	Minimal <i>in vitro</i> systems shed light on cell polarity. Journal of Cell Science, 2019, 132, .	2.0	22
5	Spindle Dynamics Model Explains Chromosome Loss Rates in Yeast Polyploid Cells. Frontiers in Genetics, 2018, 9, 296.	2.3	7
6	Patterns of Conservation and Diversification in the Fungal Polarization Network. Genome Biology and Evolution, 2018, 10, 1765-1782.	2.5	15
7	Global DNA Compaction in Stationary-Phase Bacteria Does Not Affect Transcription. Cell, 2018, 174, 1188-1199.e14.	28.9	81
8	Evolutionary dynamics in the fungal polarization network, a mechanistic perspective. Biophysical Reviews, 2017, 9, 375-387.	3.2	4
9	Optical Tweezers-Based Measurements of Forces and Dynamics at Microtubule Ends. Methods in Molecular Biology, 2017, 1486, 411-435.	0.9	5
10	Physical and Mathematical Modeling in Experimental Papers. Cell, 2015, 163, 1577-1583.	28.9	29
11	Evolutionary adaptation after crippling cell polarization follows reproducible trajectories. ELife, 2015, 4, .	6.0	63
12	General theory for the mechanics of confined microtubule asters. New Journal of Physics, 2014, 16, 013018.	2.9	32
13	Reconstitution of Cortical Dynein Function. Methods in Enzymology, 2014, 540, 205-230.	1.0	12
14	Experiments inside a box lead to out-of-the-box ideas on cellular organization. Systems and Synthetic Biology, 2014, 8, 223-226.	1.0	0
15	Positioning of microtubule organizing centers by cortical pushing and pulling forces. New Journal of Physics, 2012, 14, 105025.	2.9	40
16	End-on microtubule-dynein interactions and pulling-based positioning of microtubule organizing centers. Cell Cycle, 2012, 11, 3750-3757.	2.6	44
17	Cortical Dynein Controls Microtubule Dynamics to Generate Pulling Forces that Position Microtubule Asters. Cell, 2012, 148, 502-514.	28.9	362
18	Force Generation by Dynamic Microtubules In Vitro. Methods in Molecular Biology, 2011, 777, 147-165.	0.9	6

#	Article	IF	Citations
19	In Vitro Assays to Study Force Generation at Dynamic Microtubule Ends. Methods in Cell Biology, 2010, 95, 617-639.	1.1	14
20	FORCE GENERATION BY MICROTUBULE BUNDLES. Biophysical Reviews and Letters, 2009, 04, 33-43.	0.8	1
21	Force-generation and dynamic instability of microtubule bundles. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8920-8925.	7.1	99
22	Reconstitution of a microtubule plus-end tracking system in vitro. Nature, 2007, 450, 1100-1105.	27.8	457
23	Assembly dynamics of microtubules at molecular resolution. Nature, 2006, 442, 709-712.	27.8	531