

Jan Brugues

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,556
citations

394390

19
h-index

414395

32
g-index

50
all docs

50
docs citations

50
times ranked

1776
citing authors

#	ARTICLE	IF	CITATIONS
1	Cohesin and condensin extrude DNA loops in a cell cycle-dependent manner. <i>ELife</i> , 2020, 9, .	6.0	158
2	Nucleation and Transport Organize Microtubules in Metaphase Spindles. <i>Cell</i> , 2012, 149, 554-564.	28.9	155
3	Physical basis of spindle self-organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18496-18500.	7.1	131
4	<i>C. elegans</i> chromosomes connect to centrosomes by anchoring into the spindle network. <i>Nature Communications</i> , 2017, 8, 15288.	12.8	101
5	Dynamic instability of the intracellular pressure drives bleb-based motility. <i>Journal of Cell Science</i> , 2010, 123, 3884-3892.	2.0	100
6	Cell Blebbing and Membrane Area Homeostasis in Spreading and Retracting Cells. <i>Biophysical Journal</i> , 2010, 99, 1726-1733.	0.5	89
7	Non-relativistic strings and branes as non-linear realizations of Galilei groups. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 594, 227-233.	4.1	69
8	Dynamical organization of the cytoskeletal cortex probed by micropipette aspiration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15415-15420.	7.1	69
9	Newton-Hooke algebras, nonrelativistic branes, and generalized pp-wave metrics. <i>Physical Review D</i> , 2006, 73, .	4.7	68
10	Autocatalytic microtubule nucleation determines the size and mass of <i>Xenopus laevis</i> egg extract spindles. <i>ELife</i> , 2018, 7, .	6.0	67
11	Force generation by protein-DNA co-condensation. <i>Nature Physics</i> , 2021, 17, 1007-1012.	16.7	51
12	Cooperative ordering of treadmilling filaments in cytoskeletal networks of FtsZ and its crosslinker ZapA. <i>Nature Communications</i> , 2019, 10, 5744.	12.8	49
13	The Physics of the Metaphase Spindle. <i>Annual Review of Biophysics</i> , 2018, 47, 655-673.	10.0	48
14	Model for Probing Membrane-Cortex Adhesion by Micropipette Aspiration and Fluctuation Spectroscopy. <i>Biophysical Journal</i> , 2015, 108, 1878-1886.	0.5	38
15	Spindle Scaling Is Governed by Cell Boundary Regulation of Microtubule Nucleation. <i>Current Biology</i> , 2020, 30, 4973-4983.e10.	3.9	38
16	Self-Organization and Cooperativity of Weakly Coupled Molecular Motors under Unequal Loading. <i>Physical Review Letters</i> , 2009, 102, 118104.	7.8	36
17	Measuring Microtubule Polarity in Spindles with Second-Harmonic Generation. <i>Biophysical Journal</i> , 2014, 106, 1578-1587.	0.5	31
18	Soluble tubulin is significantly enriched at mitotic centrosomes. <i>Journal of Cell Biology</i> , 2019, 218, 3977-3985.	5.2	26

#	ARTICLE	IF	CITATIONS
19	Active forces shape the metaphase spindle through a mechanical instability. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16154-16159.	7.1	22
20	Probing Elastic Anisotropy from Defect Dynamics in Langmuir Monolayers. Physical Review Letters, 2008, 100, 037801.	7.8	19
21	Male meiotic spindle features that efficiently segregate paired and lagging chromosomes. ELife, 2020, 9, .	6.0	19
22	Cooperativity of self-organized Brownian motors pulling on soft cargoes. Physical Review E, 2010, 82, 061903.	2.1	17
23	Dynamic and non-contact 3D sample rotation for microscopy. Nature Communications, 2018, 9, 5025.	12.8	17
24	Determining Physical Principles of Subcellular Organization. Developmental Cell, 2014, 29, 135-138.	7.0	14
25	Nonperturbative states in type II superstring theory from classical spinning membranes. Nuclear Physics B, 2005, 710, 117-138.	2.5	13
26	Supergravity Duals of Noncommutative Wrapped D6 Branes and Supersymmetry without Supersymmetry. Journal of High Energy Physics, 2002, 2002, 016-016.	4.7	10
27	How to tune spindle size relative to cell size?. Current Opinion in Cell Biology, 2019, 60, 139-144.	5.4	7
28	Dissecting microtubule structures by laser ablation. Methods in Cell Biology, 2015, 125, 61-75.	1.1	6
29	Spatial variation of microtubule depolymerization in large asters. Molecular Biology of the Cell, 2021, 32, 869-879.	2.1	6
30	A gelation transition enables the self-organization of bipolar metaphase spindles. Nature Physics, 2022, 18, 323-331.	16.7	6
31	Nonequilibrium fluctuations in metaphase spindles: polarized light microscopy, image registration, and correlation functions. Proceedings of SPIE, 2010, , .	0.8	4
32	Measuring Microtubule Polarity in Spindles with Second-Harmonic-Generation Microscopy. Biophysical Journal, 2013, 104, 146a.	0.5	0
33	Cytoskeleton Dynamics: Mind the Gap!. Current Biology, 2017, 27, R279-R281.	3.9	0