

Vladimir A Volkov

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

831
citations

623734

14
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996975

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27
all docs

27
docs citations

27
times ranked

631
citing authors

#	ARTICLE	IF	CITATIONS
1	Fibrils Connect Microtubule Tips with Kinetochores: A Mechanism to Couple Tubulin Dynamics to Chromosome Motion. <i>Cell</i> , 2008, 135, 322-333.	28.9	186
2	The Dam1 ring binds microtubules strongly enough to be a processive as well as energy-efficient coupler for chromosome motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15423-15428.	7.1	87
3	Different assemblies of the DAM1 complex follow shortening microtubules by distinct mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6918-6923.	7.1	85
4	Tubulin depolymerization may be an ancient biological motor. <i>Journal of Cell Science</i> , 2010, 123, 3425-3434.	2.0	83
5	Multivalency of NDC80 in the outer kinetochore is essential to track shortening microtubules and generate forces. <i>ELife</i> , 2018, 7, .	6.0	67
6	Long tethers provide high-force coupling of the Dam1 ring to shortening microtubules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7708-7713.	7.1	64
7	Centromere protein F includes two sites that couple efficiently to depolymerizing microtubules. <i>Journal of Cell Biology</i> , 2015, 209, 813-828.	5.2	46
8	Molecular determinants of the Ska-Ndc80 interaction and their influence on microtubule tracking and force-coupling. <i>ELife</i> , 2019, 8, .	6.0	46
9	CENP-F couples cargo to growing and shortening microtubule ends. <i>Molecular Biology of the Cell</i> , 2017, 28, 2400-2409.	2.1	32
10	Mechanisms of Motor-Independent Membrane Remodeling Driven by Dynamic Microtubules. <i>Current Biology</i> , 2020, 30, 972-987.e12.	3.9	30
11	Preparation of Segmented Microtubules to Study Motions Driven by the Disassembling Microtubule Ends. <i>Journal of Visualized Experiments</i> , 2014, , .	0.3	22
12	The depolymerase activity of MCAK shows graded response to Aurora B kinase phosphorylation through allosteric regulation. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	22
13	Cross-linkers at growing microtubule ends generate forces that drive actin transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2112799119.	7.1	20
14	An Allosteric Mechanism for Switching between Parallel Tracks in Mammalian Sulfur Metabolism. <i>PLoS Computational Biology</i> , 2008, 4, e1000076.	3.2	16
15	Microtubules pull the strings: disordered sequences as efficient couplers of microtubule-generated force. <i>Essays in Biochemistry</i> , 2020, 64, 371-382.	4.7	6