

Ruobo Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

4,153
citations

304743

22
h-index

552781

26
g-index

30
all docs

30
docs citations

30
times ranked

6003
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring mechanical tension across vinculin reveals regulation of focal adhesion dynamics. <i>Nature</i> , 2010, 466, 263-266.	27.8	1,274
2	Visualizing and discovering cellular structures with super-resolution microscopy. <i>Science</i> , 2018, 361, 880-887.	12.6	500
3	Real-Time Imaging of Translation on Single mRNA Transcripts in Live Cells. <i>Cell</i> , 2016, 165, 990-1001.	28.9	305
4	Fluorescence-Force Spectroscopy Maps Two-Dimensional Reaction Landscape of the Holliday Junction. <i>Science</i> , 2007, 318, 279-283.	12.6	270
5	Asymmetric Unwrapping of Nucleosomes under Tension Directed by DNA Local Flexibility. <i>Cell</i> , 2015, 160, 1135-1144.	28.9	261
6	Developmental mechanism of the periodic membrane skeleton in axons. <i>ELife</i> , 2014, 3, .	6.0	199
7	SSB Functions as a Sliding Platform that Migrates on DNA via Reptation. <i>Cell</i> , 2011, 146, 222-232.	28.9	180
8	Prevalent presence of periodic actin-spectrin-based membrane skeleton in a broad range of neuronal cell types and animal species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6029-6034.	7.1	145
9	Periodic DNA patrolling underlies diverse functions of Pif1 on R-loops and G-rich DNA. <i>ELife</i> , 2014, 3, e02190.	6.0	143
10	An improved surface passivation method for single-molecule studies. <i>Nature Methods</i> , 2014, 11, 1233-1236.	19.0	120
11	Structural organization of the actin-spectrin-based membrane skeleton in dendrites and soma of neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6678-E6685.	7.1	115
12	Membrane-associated periodic skeleton is a signaling platform for RTK transactivation in neurons. <i>Science</i> , 2019, 365, 929-934.	12.6	98
13	Structural mechanisms of PriA-mediated DNA replication restart. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1373-1378.	7.1	94
14	The SOSS1 single-stranded DNA binding complex promotes DNA end resection in concert with Exo1. <i>EMBO Journal</i> , 2012, 32, 126-139.	7.8	74
15	Spider Silk Peptide Is a Compact, Linear Nanospring Ideal for Intracellular Tension Sensing. <i>Nano Letters</i> , 2016, 16, 2096-2102.	9.1	61
16	Î²II-spectrin promotes mouse brain connectivity through stabilizing axonal plasma membranes and enabling axonal organelle transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15686-15695.	7.1	48
17	PriC-mediated DNA Replication Restart Requires PriC Complex Formation with the Single-stranded DNA-binding Protein. <i>Journal of Biological Chemistry</i> , 2013, 288, 17569-17578.	3.4	47
18	Detecting Intramolecular Conformational Dynamics of Single Molecules in Short Distance Range with Subnanometer Sensitivity. <i>Nano Letters</i> , 2011, 11, 5482-5488.	9.1	39

#	ARTICLE	IF	CITATIONS
19	The Telomere Capping Complex CST Has an Unusual Stoichiometry, Makes Multipartite Interaction with G-Tails, and Unfolds Higher-Order G-Tail Structures. <i>PLoS Genetics</i> , 2013, 9, e1003145.	3.5	39
20	Force-Fluorescence Spectroscopy at the Single-Molecule Level. <i>Methods in Enzymology</i> , 2010, 475, 405-426.	1.0	28
21	Forcing a connection: Impacts of single-molecule force spectroscopy on in vivo tension sensing. <i>Biopolymers</i> , 2011, 95, 332-344.	2.4	26
22	Single molecule analysis of <i>Thermus thermophilus</i> SSB protein dynamics on single-stranded DNA. <i>Nucleic Acids Research</i> , 2014, 42, 3821-3832.	14.5	25
23	Junction resolving enzymes use multivalency to keep the Holliday junction dynamic. <i>Nature Chemical Biology</i> , 2019, 15, 269-275.	8.0	23
24	Proteomic and functional analyses of the periodic membrane skeleton in neurons. <i>Nature Communications</i> , 2022, 13, .	12.8	15
25	Single-Molecule Analysis of SSB Dynamics on Single-Stranded DNA. <i>Methods in Molecular Biology</i> , 2012, 922, 85-100.	0.9	9
26	SSB Functions as a Sliding Platform that Migrates on DNA via Reptation. <i>Cell</i> , 2011, 146, 485.	28.9	3