

Jay M Newby

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2388755/publications.pdf>

Version: 2024-02-01

15
papers

1,155
citations

933447

10
h-index

996975

15
g-index

18
all docs

18
docs citations

18
times ranked

1555
citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic models of intracellular transport. <i>Reviews of Modern Physics</i> , 2013, 85, 135-196.	45.6	492
2	HSP70 chaperones RNA-free TDP-43 into anisotropic intranuclear liquid spherical shells. <i>Science</i> , 2021, 371, .	12.6	200
3	The Binding Site Barrier Elicited by Tumor-Associated Fibroblasts Interferes Disposition of Nanoparticles in Stroma-Vessel Type Tumors. <i>ACS Nano</i> , 2016, 10, 9243-9258.	14.6	161
4	Convolutional neural networks automate detection for tracking of submicron-scale particles in 2D and 3D. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9026-9031.	7.1	138
5	A blueprint for robust crosslinking of mobile species in biogels with weakly adhesive molecular anchors. <i>Nature Communications</i> , 2017, 8, 833.	12.8	29
6	Partial demixing of RNA-protein complexes leads to intradroplet patterning in phase-separated biological condensates. <i>Physical Review E</i> , 2019, 99, 012411.	2.1	24
7	LPS-binding IgG arrests actively motile <i>Salmonella Typhimurium</i> in gastrointestinal mucus. <i>Mucosal Immunology</i> , 2020, 13, 814-823.	6.0	22
8	Modeling Barrier Properties of Intestinal Mucus Reinforced with IgG and Secretory IgA against Motile Bacteria. <i>ACS Infectious Diseases</i> , 2019, 5, 1570-1580.	3.8	20
9	Control of septin filament flexibility and bundling by subunit composition and nucleotide interactions. <i>Molecular Biology of the Cell</i> , 2018, 29, 702-712.	2.1	19
10	Spatial heterogeneity of the cytosol revealed by machine learning-based 3D particle tracking. <i>Molecular Biology of the Cell</i> , 2020, 31, 1498-1511.	2.1	11
11	Uniform asymptotic approximation of diffusion to a small target: Generalized reaction models. <i>Physical Review E</i> , 2016, 94, 042414.	2.1	10
12	Hydrodynamics of transient cell-cell contact: The role of membrane permeability and active protrusion length. <i>PLoS Computational Biology</i> , 2019, 15, e1006352.	3.2	10
13	Modeling the Mechanisms by Which Coexisting Biomolecular RNA-Protein Condensates Form. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 153.	1.9	6
14	Personalized Virus Load Curves for Acute Viral Infections. <i>Viruses</i> , 2021, 13, 1815.	3.3	5
15	Limited processivity of single motors improves overall transport flux of self-assembled motor-cargo complexes. <i>Physical Review E</i> , 2019, 100, 022408.	2.1	2