

Jean-Francois Rupprecht

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

950
citations

516710

16
h-index

713466

21
g-index

30
all docs

30
docs citations

30
times ranked

1336
citing authors

#	ARTICLE	IF	CITATIONS
1	Implementation of cellular bulk stresses in vertex models of biological tissues. <i>European Physical Journal E</i> , 2022, 45, 4.	1.6	4
2	Adhesion-mediated heterogeneous actin organization governs apoptotic cell extrusion. <i>Nature Communications</i> , 2021, 12, 397.	12.8	34
3	Cell Junction Mechanics beyond the Bounds of Adhesion and Tension. <i>Developmental Cell</i> , 2021, 56, 202-212.	7.0	33
4	Group testing as a strategy for COVID-19 epidemiological monitoring and community surveillance. <i>PLoS Computational Biology</i> , 2021, 17, e1008726.	3.2	25
5	Screening for SARS-CoV-2 by RT-PCR: Saliva or nasopharyngeal swab? Rapid review and meta-analysis. <i>PLoS ONE</i> , 2021, 16, e0253007.	2.5	38
6	Microtubule plus-end dynamics link wound repair to the innate immune response. <i>ELife</i> , 2020, 9, .	6.0	27
7	Large and reversible myosin-dependent forces in rigidity sensing. <i>Nature Physics</i> , 2019, 15, 689-695.	16.7	31
8	Shaping the zebrafish myotome by intertissue friction and active stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25430-25439.	7.1	53
9	Soft inclusion in a confined fluctuating active gel. <i>Physical Review E</i> , 2018, 97, 032602.	2.1	8
10	Maximal Fluctuations of Confined Actomyosin Gels: Dynamics of the Cell Nucleus. <i>Physical Review Letters</i> , 2018, 120, 098001.	7.8	11
11	The escape problem for mortal walkers. <i>Journal of Chemical Physics</i> , 2017, 146, 084106.	3.0	48
12	Geometric constraints alter cell arrangements within curved epithelial tissues. <i>Molecular Biology of the Cell</i> , 2017, 28, 3582-3594.	2.1	40
13	Trade-offs between structural integrity and acquisition time in stochastic super-resolution microscopy techniques. <i>Optics Express</i> , 2017, 25, 23146.	3.4	7
14	Optimal search strategies of run-and-tumble walks. <i>Physical Review E</i> , 2016, 94, 012117.	2.1	34
15	A fresh eye on nonequilibrium systems. <i>Science</i> , 2016, 352, 514-515.	12.6	19
16	Velocity Condensation for Magnetotactic Bacteria. <i>Physical Review Letters</i> , 2016, 116, 168101.	7.8	18
17	Stochastic Optical Mapping by Holographic 3D Superlocalization of Brownian Nanoparticles. , 2016, , .		0
18	Exit Time Distribution in Spherically Symmetric Two-Dimensional Domains. <i>Journal of Statistical Physics</i> , 2015, 158, 192-230.	1.2	43

#	ARTICLE	IF	CITATIONS
19	Actin Flows Mediate a Universal Coupling between Cell Speed and Cell Persistence. <i>Cell</i> , 2015, 161, 374-386.	28.9	369
20	Holographic 3D Superlocalization of Brownian Scattering Particles for Stochastic Optical Mapping. , 2015, , .		0
21	Stochastic 3D optical mapping by holographic localization of Brownian scatterers. <i>Optics Express</i> , 2014, 22, 29191.	3.4	29
22	Exact mean exit time for surface-mediated diffusion. <i>Physical Review E</i> , 2012, 86, 041135.	2.1	32
23	Kinetics of Active Surface-Mediated Diffusion in Spherically Symmetric Domains. <i>Journal of Statistical Physics</i> , 2012, 147, 891-918.	1.2	37