

Philip Greulich

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

851
citations

687363

13
h-index

752698

20
g-index

28
all docs

28
docs citations

28
times ranked

900
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal principles of lineage architecture and stem cell identity in renewing tissues. Development (Cambridge), 2021, 148, .	2.5	11
2	The physics of cell fate. , 2020, , 189-206.		5
3	Universality of clonal dynamics poses fundamental limits to identify stem cell self-renewal strategies. ELife, 2020, 9, .	6.0	7
4	Quantitative modelling predicts the impact of DNA methylation on RNA polymerase II traffic. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14995-15000.	7.1	42
5	Totally asymmetric exclusion process with site-wise dynamic disorder. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 065002.	2.1	18
6	Stability and steady state of complex cooperative systems: a diakoptic approach. Royal Society Open Science, 2019, 6, 191090.	2.4	6
7	Mathematical Modelling of Clonal Stem Cell Dynamics. Methods in Molecular Biology, 2019, 1975, 107-129.	0.9	3
8	Extreme value statistics of mutation accumulation in renewing cell populations. Physical Review E, 2018, 98, .	2.1	2
9	Predicting the dynamics of bacterial growth inhibition by ribosome-targeting antibiotics. Physical Biology, 2017, 14, 065005.	1.8	23
10	A single dividing cell population with imbalanced fate drives oesophageal tumour growth. Nature Cell Biology, 2016, 18, 967-978.	10.3	57
11	Dynamic heterogeneity as a strategy of stem cell self-renewal. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7509-7514.	7.1	54
12	Growth-dependent bacterial susceptibility to ribosome-targeting antibiotics. Molecular Systems Biology, 2015, 11, 796.	7.2	123
13	Differentiation imbalance in single oesophageal progenitor cells causes clonal immortalization and field change. Nature Cell Biology, 2014, 16, 612-619.	10.3	154
14	Mixed population of competing totally asymmetric simple exclusion processes with a shared reservoir of particles. Physical Review E, 2012, 85, 011142.	2.1	66
15	Mutational Pathway Determines Whether Drug Gradients Accelerate Evolution of Drug-Resistant Cells. Physical Review Letters, 2012, 109, 088101.	7.8	100
16	Boundary-induced orientation of dynamic filament networks and vesicle agglomerations. Physical Review E, 2011, 84, 060902.	2.1	3
17	Disordered driven lattice gases with boundary reservoirs and Langmuir kinetics. Physical Review E, 2009, 79, 031107.	2.1	19
18	Statistical Properties of Disordered Driven Lattice Gases with Open Boundaries. , 2009, , 307-313.		0

#	ARTICLE	IF	CITATIONS
19	Phase diagram and edge effects in the ASEP with bottlenecks. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 1972-1986.	2.6	45
20	Intra-cellular traffic: bio-molecular motors on filamentary tracks. European Physical Journal B, 2008, 64, 593-600.	1.5	13
21	Single-bottleneck approximation for driven lattice gases with disorder and open boundary conditions. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P04009.	2.3	33
22	Intracellular transport by single-headed kinesin KIF1A: Effects of single-motor mechanochemistry and steric interactions. Physical Review E, 2007, 75, 041905.	2.1	62